June 30, 1932

Engineering News-Record

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Constants for Computing Employment In Road Work

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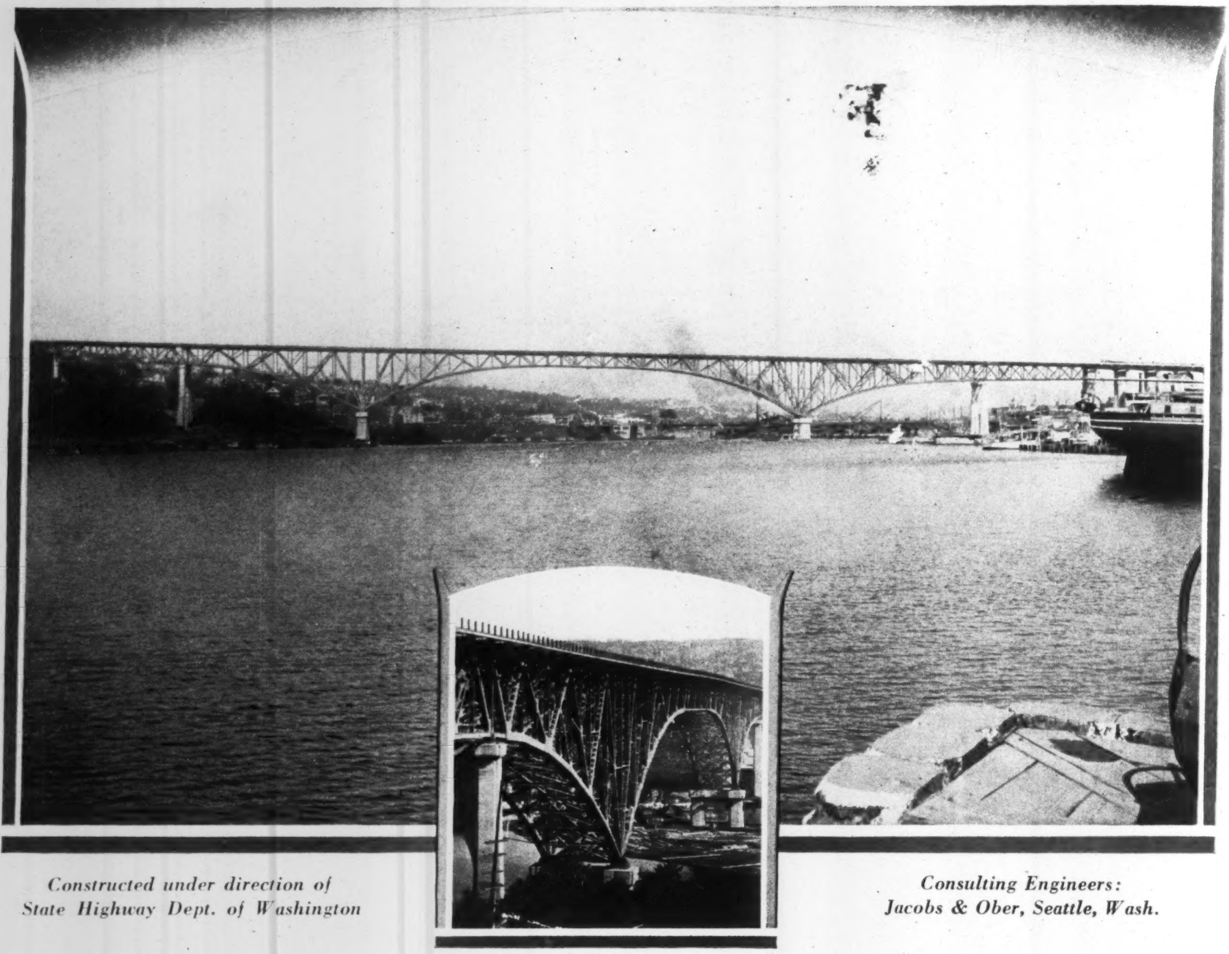

Constructed under direction of
State Highway Dept. of Washington

The Main Channel Span

Consulting Engineers:
Jacobs & Ober, Seattle, Wash.

THE GEORGE WASHINGTON MEMORIAL BRIDGE

The George Washington Memorial Bridge over Lake Union, dedicated, appropriately, on February 22nd, in this Washington Bicentennial Year, carries the main Pacific Highway into the heart of the city of Seattle. This impressive structure, spanning city thoroughfares, railroad lines and navigable waters, presented an erection problem demanding unusual skill and wide experience for the proper safeguarding of uninterrupted auto, pedestrian, railroad and shipping traffic hundreds of feet below.

The deck-type cantilever superstructure, 2110 feet in length, has a main channel span of 800 feet and provides a navigation clearance of 135 feet above the water level. The roadway, 57 feet in width, accommodates 6 lanes of vehicular traffic. Approximately 8000 tons of steel were required, all of which was fabricated and erected by the

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F. E. Schmitt, Editor

Volume 108 New York, June 30, 1932 Number 26

Useful Investment

A LOAN of $10,400,000 to the Cincinnati Union Terminals Co. by the Reconstruction Finance Corp. is encouraging. Like the larger loan to the Pennsylvania Railroad, this is for new work, not simply for repayment of past loans. The work of building new union railway terminals at Cincinnati, estimated to cost $40,000,000, is well along toward completion, and stopping it now would mean sacrifice of the return upon the investment already made, to say nothing of the inconvenience of operating a partly completed project. On the other hand, it takes an optimistic view of the future to borrow more money at this time in the face of declining income on the part of the railroads interested in the terminal project. More of such optimism is needed on the part of many industries that need modernizing.

New Life

GOING through the last bitter stages of battle between the opposite ends of Pennsylvania Avenue, the Congressional bill to create employment is nearing enactment. Its charity feature, valuable as it may prove to be, is of minor importance. Its provision to permit of resuming local public works is its great element of strength. As soon as this provision is made effective by competent administration, it will start up in every corner of the country work that has been delayed and postponed for many months, and in so doing will bring back earning power to millions of men now in enforced idleness. The measure has had to face unexampled hostility, but with its passage near at hand, prospects for new economic life are opening up. Together with the mortgage discount bank bill, also nearing enactment, it will create new credit, purchasing power and business activity.

Roadbuilding Offers Employment

FIGURES translating dollars spent in Michigan roadbuilding into number of men given work are published elsewhere in this issue. A million dollars give direct employment to from 2,500 to 5,286 men five days a week for three and a half to six weeks. This is direct labor. It is to be multiplied by four in the first instance, on the basis of statements attested to by the Bureau of Public Roads, which found that, for every direct laborer at work, employment is spread to three others who produce and transport the materials and equipment used. The result gives primary labor. But it is well known that an even larger amount of secondary employment is created by wages—the employment in the service and consumption industries that supply the wage-earner's needs and absorb his wage—so that the dollar paid out for primary labor turns over in additional employment by two to ten times. The result differs vastly from the reiterated figure of 35,000 men employed for $136,000,000 construction expenditure, a figure used by administration agencies in Washington to oppose an emergency road appropriation.

LOOK FOR THE INDEX—*An index to the contents of* Engineering News-Record *for Vol. 108, January-June, 1932, will appear two weeks from now, accompanying the issue of July 14.*

Stronger Steel

RETURNING in new form to structural views and practices current more than three decades ago, steel makers and users have agreed on a specification for medium steel for structural service, just accepted as a tentative standard by the American Society for Testing Materials. This step is tangible expression of a movement toward realizing higher efficiency in steel structures, a movement observable in all important countries for a decade or more and made effective in some of them by the commercial adoption of stronger steel and higher working stresses. Since the beginning of the century great advance has been made in steel production as to both quality and cost; design and fabrication advanced similarly; yet because minimum yield-points were not raised, working stresses remained virtually at the level of thirty years ago. Stronger steel will remove this uneconomical restriction.

Tunneling Advance

BELT-CONVEYOR handling of muck in the Boston traffic tunnel marks the most significant advance in soft-ground tunneling since the introduction of cast-iron lining. To scrap the conventional rail-haulage methods in favor of a radically new and untried belt-conveyor system operating through air locks called for real courage on the part of the contractor and implicit faith in the ability of his associates and the equipment manufactu[illegible] produce a workable plant. That this faith was justified is indicated by the fast and successful driving of the tunnel, described in this issue. Obviously, the chief obstacle in applying belt transportation of muck to compressed-air tunneling was to provide some means of trapping through the air locks. The ingenious automatic lock arrangement developed for the purpose has worked without a hitch. Thus the work at Boston has placed new methods at the disposal of soft-ground tunnel builders. The former limiting factor of progress, getting rid of the muck, has been removed, and now the rate of heading advance remains dependent only on ground conditions.

The Vital Element

STANDARDIZATION work carries a great mental peril, according to F. O. Clements in his presidential address to the American Society for Testing Materials last week. The peril is that of standardizing the mind, he explained, for standardization of ideas means no progress. Danger of such stagnation may be avoided, said Dr. Clements, by a *continual search for new knowledge*. More inspiring words could hardly be uttered before an engineering audience. Search for new knowledge has ever been and will remain the heart of engineering endeavor. The scientific element of the engineer's mind is the vital element, to which the practice that the day's needs bring is only an accompaniment, necessary though it be. But for the spirit of scientific progress the engineer's mind would stagnate and would become submerged in a morass of standards and rules of practice—tools that, however convenient, are always imperfect.

Open Questions

EXPERIENCE has taught in many costly lessons that the dollars spent in building and operating an irrigation project must be repaid from the produce of the land, through lean years as well as fat, and therefore that cost, productivity, markets and management must be such as to assure solvency. This teaching applies with special force to so gigantic a scheme as the Columbia Basin project, with its 1¼ million acres to be settled and its million horsepower to be sold and utilized. Yet, strange to say, the Bureau of Reclamation report summarized in this issue virtually ignores the question of whether the development of so great an area can be justified as economically feasible. Through this fact as well as its conflict with the recent Chief of Engineers' report on the Columbia River and with the views of those who oppose further agricultural expansion, the present report raises many questions.

Irrigation has had a hard time of it in recent years, as witnessed by the reclamation moratoria and the numerous defaults of district projects. Though these are in part chargeable to the great ten-year stringency of agriculture, the circumstances nevertheless call for convincing proof of economical feasibility of any new project. The staggering losses suffered by irrigation investors in the past and the bitter experiences of settlers tell the story of what comes from hope not backed by solid economic proof. Obviously such proof is a primary necessity in any consideration of Columbia Basin; yet the report devotes only a scant paragraph or two to the irrigation problem. In essence it is a report on a great power scheme rather than on the Columbia Basin project as such.

Considered in this light, it presents two major questions: first, whether the power development itself is in order at this time; second, whether the power project, if profitable, should bear the burden of carrying a doubtful, but in any case very costly, irrigation project.

The Columbia River is rich in power, and Grand Coulee is one of the greatest and cheapest power sites. Excellent designs and estimates for a development at this site are presented. But power demand in the Northwest has been declining during recent years, and in the opinion of some the region cannot absorb more power until its industrial position changes radically. Further, existing power plants already have a large surplus of power. These facts suggest that the power project could hardly hope for profitable existence until renewed increase in power consumption demonstrates that the region affords a growing market.

On the second point, the dependence of irrigation on power, the steadily growing importance of power in irrigation development comes to mind. It is the obvious reason why the present report differs from the unanimous finding in favor of a gravity-flow scheme in the bureau's prior Columbia Basin reports, and adopts the Grand Coulee power and pumping scheme instead. Increasingly the potential power resources at irrigation dams have been put to use by installing generating plants, and with the help of the power market furnished by the farms and towns they have yielded large revenues. Therefore power and irrigation have come into the position of joint enterprises, which to a degree may be expected to support each other.

This relation, however, presupposes not merely that the power development should be profitable but also that the irrigation project be sound and solvent as a farm settlement enterprise; and, further, that the power be used mainly on the project itself. To support an unprofitable farming business by running a power business on the side and paying farm deficits out of excessive power charges to outside customers is hardly logical. It would be better business to build the power plant alone and leave the farming to more favored regions.

Here, however, a question of far broader import enters. Battles have been waged over the propriety of subsidizing irrigation, especially because of the no-interest feature of the Reclamation Act, which constitutes an indirect subsidy of large amount. Preferential treatment of the irrigation farmer by giving him a subsidy has often been assailed, with obvious justice, by those who hold that other farmers are equally entitled to subsidy. But present economic conditions in the nation give cause for restudy of the entire issue.

The object lesson we are having of excessive industrial centralization and of the need for more self-contained rural development constitutes a reason for considering anew whether it may not be wise to apply part of our surplus working capacity to the creation of additional opportunities for independent existence. Segregated irrigation communities afford such opportunity in unusually effective form. So far as such communities can be built up without introducing new agricultural competition—as has been possible in many instances—they may prove to be national assets of great value, justifying a large non-returnable investment, whether direct or contained in a power plant. Investment of this kind, by creating new markets for industrial consumption, might well prove to be of greater value to industry than duplication of factories.

Quite aside from the divergence between the present report and other reports and views on the Columbia Basin project, then, more than one unanswered question of major importance centers in the project. Fuller study during the years before the project can be undertaken should see these questions adequately discussed and answered.

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Columbia Basin Project Reported Feasible

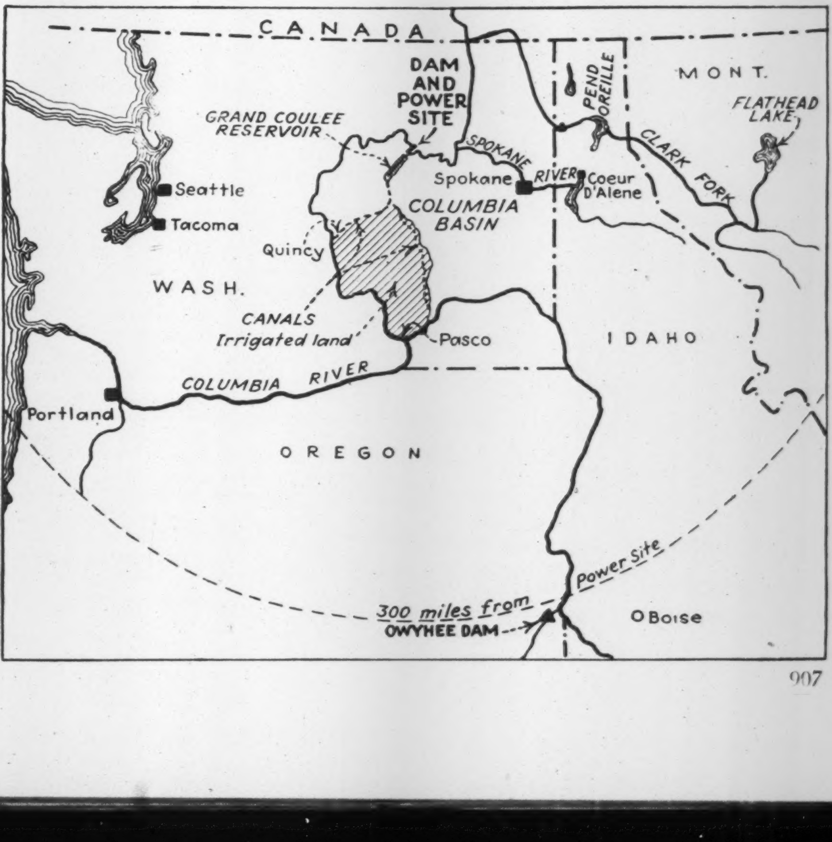
THE GREAT power and irrigation project on the Columbia River in south-central Washington, generally known as the Columbia Basin project, is considered "physically and financially feasible" by engineers of the Bureau of Reclamation, according to a report prepared by them last year and submitted to the bureau early this year. This report departs fundamentally from the bureau's earlier reports in that the gravity supply of irrigation water is abandoned for a pumped supply in which the development of power becomes a major factor.

The Columbia Basin occupies the southerly half of the area inclosed by the curve which the Columbia River makes between its junction with the Spokane River in the northeastern part of the state of Washington and its junction with the Snake River in the southeastern part of the state. The lands within the basin are arid, with a precipitation of from 4 to 10 in. of rainfall a year, and they are believed to be the bottom of an ancient lake that covered all of central Washington. The soil is fertile and of considerable depth, often overlaying gravel. Originally it was covered with grass and sagebrush. Now part of the land is devoted to grazing and a small part to dry farming, but the dry farming has not proved successful generally. Five-sixths of the land is in private ownership; the state, nation and the railway companies own about 5 per cent each. Land values range from $5 to $20 per acre. Roughly, the area considered suitable for irrigation is about 80 miles wide in an east and west direction and somewhat longer north and south.

In the past, two general methods of bringing in water for irrigation have been considered in planning the development of the basin—by gravity and by pumping. The gravity-irrigation schemes take water from the Clark Fork of the Columbia at Albany Falls, Idaho, just about on the Washington-Idaho boundary, or from the Spokane River, carrying the water through long canal and conduit systems into the Columbia Basin. Storage usually was considered necessary in the gravity schemes, and it was to be provided in Pend Oreille Lake (Idaho), in Flathead Lake (Montana), or in Priest Lake (Idaho). Areas to be irrigated by this method range from 1,000,000 acres, at a cost of $250 per acre, to 1,760,000 acres, at a cost of $144.

The pumping project considered in the past called for a dam across the Columbia River below the mouth of the Grand Coulee for the development of power with which to pump water up into a reservoir in the Grand Coulee. From this reservoir the water could flow by gravity and afford irrigation for 1,000,000 acres directly, or about 1,200,000 acres with secondary pumping.

The history of these projects to develop the Columbia Basin by irrigation goes back to the early part of the century, individual sections having been subject to reports as far back as 1904. In 1920 the first report on the entire basin was made by the state at a cost of $150,000. This report was reviewed in December, 1902, by a board of engineers appointed by the Reclamation Service, consisting of D. C. Henny, James Munn and C. T. Pease, to which review the state commission replied in 1921. In February, 1922, W. T. Batcheller made a report for the state on the pumping project, and later the



The Columbia Basin lies in south-central Washington in a great loop made by the Columbia River. The major cities of the northwest lie within 300 miles of the proposed power site.

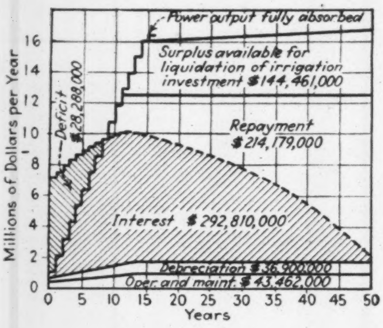
state employed George W. Goethals & Co. to recheck the government and other investigations. At a later date, under an appropriation from Congress, the Bureau of Reclamation made a separate investigation and report through Homer J. Gault, whose report was submitted in March, 1924. A review of this report was made for the bureau by A. J. Wiley, James Munn and J. L. Savage in April of that year. Just prior to this study the irrigation and power use of the upper Columbia River (above the mouth of the Snake) had been studied by a board of engineers for the Federal Power Commission. Its report was issued in 1923. After the first review of the Gault report the Bureau of Reclamation appointed a board of outside engineers, which made a very elaborate report with recommendations differing radically from those of the Gault report and the first review board. Soil studies were made by the Department of Agriculture in connection with the Gault report, and further soil and economic studies were made for the bureau in 1928 by B. E. Hayden of the bureau and Prof. George Severance of the Washington State College.

Only the Batcheller report favored a pumping scheme such as is now favored by the Bureau of Reclamation.

Finally, during the period from 1927 to 1930 the War Department, in connection with its general river studies under special act of Congress in 1927, made an investigation of the Columbia Basin possibilities as part of its study of the entire Columbia River valley. This report, in so far as it related to the combined power and pumping scheme for irrigating the Columbia River basin, reported against that project on economic grounds. Contrary views were expressed almost simultaneously in the report made to the Bureau of Reclamation by R. F. Walter, chief engineer. A summary of Mr. Walter's report to Elwood Mead, commissioner, Bureau of Reclamation, is given in the following.

Power and irrigation

The project, as outlined in the Reclamation Bureau report, has as its principal feature a straight gravity dam across the Columbia River, 420 ft. high and 4,000 ft. long. Part of the 1,000,000 hp. of primary and 1,000,000 hp. of secondary power developed by this dam would be used to pump 16,000 sec.-ft. of water against a 365-ft. head for use in irrigating 1,200,000 acres of land in the Columbia River Basin lying east of the river. The total estimated cost of the entire combined development is about $400,000,000. Revenue to be derived from power is estimated as sufficient to repay the cost of the entire power development in 50 years at 4 per cent interest and, in addition, provide a surplus sufficient to carry one-half the cost of irrigation development. On this basis the irrigation development would have to repay a cost of about $88 per acre on a 40-year interest-free plan.



The combined power and irrigation scheme is considered feasible on the basis that the power is absorbed at a uniform rate over a period of fifteen years and that there will be a revenue of 2.25 mills per kilowatt-hour plus $1 per acre per year for pumping, assuming developments of the project at the rate of 20,000 acres per year.

The dam and power site is quite definitely established at the entrance of the Grand Coulee about 75 miles west of Spokane. Raising the water level 355 ft. by the proposed structure would create a reservoir 150 miles long, extending to the Canadian border. From this reservoir the irrigation supply would be pumped up into a storage and regulating reservoir of 1,050,000 acre-ft. capacity made by damming both ends of Grand Coulee, a section of prehistoric river channel. Discharge from this reservoir would be distributed by a gravity canal system to 981,000 acres of land extending to near the junction of the Columbia with the Snake River at Pasco. Drops on this canal system would provide power for repumping a portion of the supply through a 100-ft. lift for an additional 219,000 acres, making a proposed total of 1,200,000 acres of irrigated area.

Project economically feasible

From their study of the project the engineers of the Bureau of Reclamation drew the following conclusions:

1. The market for power in the territory tributary to the proposed Columbia River dam is sufficient to absorb the total firm power output to be generated at the Columbia River dam within fifteen years after the dam is completed.

2. The time required to absorb the power output is a very important factor in the financial success of the proposed development. The power companies and municipalities operating power systems in the territory will have to cooperate to the fullest extent in the utilization of Columbia River power in order that it may be absorbed as rapidly as possible.

3. The revenue to be derived from the sale of commercial power at 2.25 mills per kilowatt-hour, combined with the revenue from the sale of power for irrigation pumping at $1 per acre per annum, will be sufficient to return within a period of 50 years the investment in the dam and power plant with interest at 4 per cent, to pay the cost of operation and maintenance of the dam and power plant and leave a substantial surplus for repayment of a portion of the investment in the irrigation development.

4. The surplus from power revenue is estimated to be sufficient to repay within 40 years about 50 per cent of the cost of the irrigation development for the entire acreage of 1,200,000 acres proposed for the project, or an average of more than $85 per acre. The balance of the irrigation investment must be repaid by the lands or from other sources.

5. Assuming the above surplus power revenues to be available, the total annual charge accruing against the land, beginning four years after settlement, would have to be $4.59 per acre, of which $2 per acre will be available for repayment of the investment in irrigation works. Beginning with the eighth year after settlement to the end of the fortieth year, the annual charge must be increased to $5.09 per acre, of which $2.59 per acre will be available for repayment of the irrigation investment, without interest.

6. In order to reduce the annual charges for the irrigation benefits accruing against the land, it will be necessary that the state of Washington, municipalities, and all interests benefited within the irrigation district contribute toward the cost in proportion to such benefits.

7. Ultimate irrigation development is proposed for 1,200,000 acres. The slower the irrigation development proceeds the smaller the amount of additional funds that will have to be advanced from the Treasury of the United States.

8. In order to perfect final construction plans it will be necessary that further information be secured by diamond drilling of the foundation of the Columbia River dam; that additional field exploration and laboratory tests be made to determine the amount and source of supply of the concrete aggregates for the Columbia River dam; that a topographic survey and land classification be made of the irrigable area of the project; that test pits and borings be made to determine the classification of material to be excavated in the main canals of the distribution system for use in final designs and estimates; and that a survey be made to determine the cost of irrigating land by pumping water from the Spokane River and by using Columbia River dam power.

9. No construction on the Columbia River dam and power plant should be undertaken until contracts are executed for the sale of power, which will insure sufficient revenue for annual expenses and the repayment of the investment in the dam and power plant with interest at 4 per cent within 50 years.

10. No construction on the irrigation development should be undertaken until the power revenues are assured and a suitable contract for repayment of the investment in irrigation works within 40 years has been executed by the district.

Water supply

The Columbia River above the proposed site has a drainage area of about 74,000 square miles, with a water supply obtained from melting snow accumulated at the higher elevations of several ranges of the Rocky Mountains. A number of large lakes provides some natural regulation of the flow by retarding the flood peaks, and there is possibility of future upstream reservoir development. However, for the estimate of the present Columbia River project no allowance was made for future artificial river control, and the water supply has been based on present flow. According to available records, the flow at Grand Coulee varies from a minimum of 17,000 sec.-ft. to a maximum of 492,000 sec.-ft., with an average annual flow of 109,000 sec.-ft., corresponding to an average annual runoff of 79,000,000 acre-ft. Although there has been little irrigation development on the upper sections of the river during the last few years, it is estimated in the report that the present flow of the river will be depleted 1,000,000 acre-ft. annually by future upstream irrigation. Characteristics of the seasonal stream variation resulting from melting snows include a rising stage during the spring of the year, with floodflow during the months of May to July, a decrease in flow during the fall and low flow from December to February.

From a study of irrigation requirements in adjacent areas it is estimated that the annual water duty for the Columbia River Basin project will be 3.25 acre-ft. per acre. Losses in the distribution system are estimated at 25 per cent of the total water diverted into the main canals. Possibility of the use of the return flow from drainage channels and wasteways is estimated at 500 sec.-ft. when the project is fully developed. After reviewing the several geological studies that have been made on the Grand Coulee regulating reservoir, it is estimated that the loss in this reservoir from leakage may be 1,000 sec.-ft.

The reservoir created by the Columbia River dam would be 150 miles long, with a water area of about 120 square miles. The capacity of the reservoir is not given in the report. According to the operating plan outlined, there would be a drawdown of 5,000,000 acre-ft. of storage during the low-flow months, to maintain the firm power output in the winter. Tailwater elevation below the proposed power plant is assumed to vary from El. 933.5 at a discharge of 19,000 sec.ft. to El. 981 at 450,000 sec.ft.

Dam design

Preliminary designs of the structure accompanying the report indicate a straight concrete dam of gravity section, 420 ft. high and 4,100 ft. long. The central spillway, 1,918 ft. long with a capacity of 1,000,000 sec.-ft., is controlled by fourteen 124x28-ft. structural-steel drum gates. Full discharge would produce a 30-ft. depth of water on the spillway crest. The design calls for fifteen 22-ft.-diameter penstocks for the power units and 36 sluice-gate openings.

Foundation rock, revealed by drilling already done at the site, is a hard dense granite covering the whole foundation area, under a deposit of clay varying in depth from 20 to 70 ft., which in turn is covered by clay and sand and gravel varying up to 100 ft. in thickness. The depth of river deposit over the valley floor will necessitate an "enormous quantity of foundation excavation." There are no indications of faults within the area of the site.

The report goes into some detail as to the handling of river diversion during construction and proposes cofferdams for half the river width and subsequent diversion of the stream through openings left in this section of the dam.

Power and pumping plants

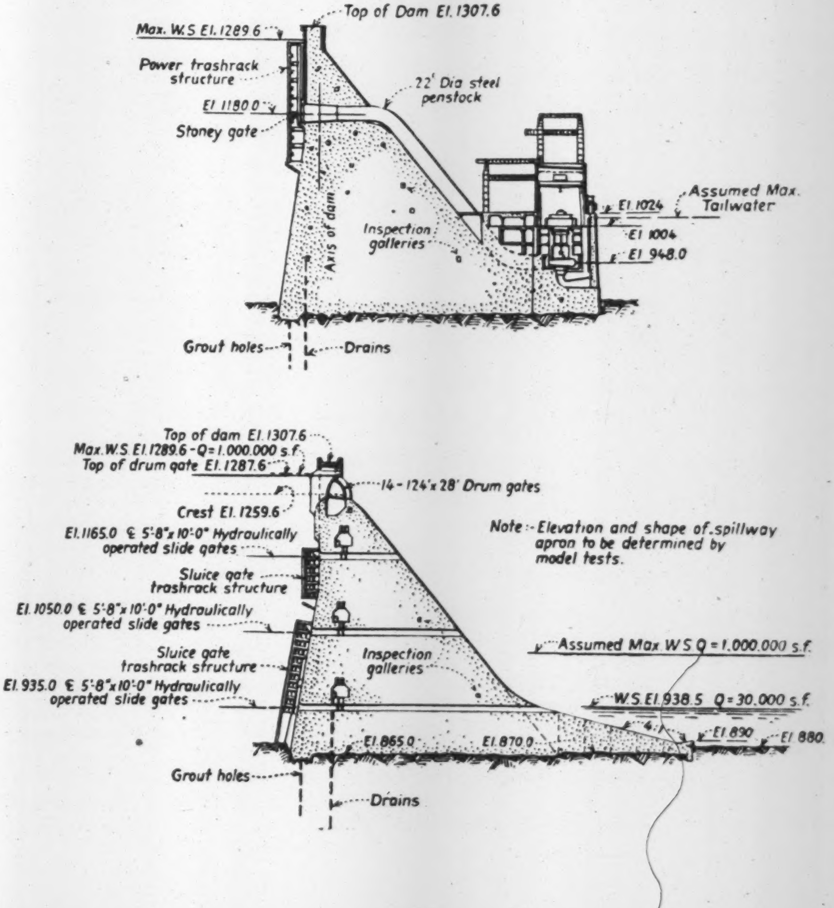
The power house is placed at the downstream toe of the dam to the left of the spillway. It contains fifteen units of 105,000-kw. capacity each, a total of 1,575,000 kw. The turbines are rated at 147,000 hp. at 330-ft. head, generators at 120,000 kva. at 120 r.p.m. and 22,000 volts. Each generating unit would have an individual transformer bank for raising the voltage to 220,000 volts. Annual cost of operation and maintenance is assumed at 50c. per kilowatt-hour of installed capacity, or $785,000. The firm power output is estimated at 800,000 kw.

The pumping plant to raise the water from the reservoir to the canal leading to the Grand Coulee reservoir is located on the reservoir shore line near the dam. It contains twenty pumping units (ultimate installation), each a single-stage pump of 800 sec.-ft. under a head of 370 ft., direct-connected to a 33,000-hp. synchronous motor, operating at 200 r.p.m. Motor capacity would be arranged so that with full reservoir one generating unit in the power plant would have sufficient capacity to operate four pumping units, to provide for coordination in power and pumping-plant operation. Separate steel discharge pipes lead to a common outlet structure at the head of the Grand Coulee Canal, with provision for stopping reversal of flow when the pumps are stopped.

Power market

The market territory for power produced from the proposed power development is assumed to be the area within a radius of 300 miles from the dam site. This includes all of Washington, northern Oregon, northern Idaho and western Montana, with 3,000,000 population. During the ten-year period ending 1930 the requirements for power in this area increased at an average rate of 9.5 per cent per year compounded annually. The report assumes a diminishing rate of increase, from 8 per cent (1930) to 4 per cent (1960). The installed generating capacity in the territory amounts to about 1,000,000 kw. at the present time; and if the load continues to increase at the assumed rate, the installed

A gravity-section dam 4,000 ft. long and 420 ft. high across the Columbia River is proposed for the development of power.


Top of Dam El. 1307.6
Max. W.S El. 1289.6
Power trashrack structure
22' Dia steel penstock
El 1180.0
Stoney gate
Axis of dam
Inspection galleries
El. 1024
Assumed Max. Tailwater
El 1004
El 948.0
Grout holes
Drains
Top of dam El. 1307.6
Max. W.S El. 1289.6 - Q = 1.000.000 s.f.
Top of drum gate El. 1287.6
14 - 124'x 28' Drum gates
Crest El. 1259.6
El. 1165.0 ℄ 5'-8"x 10'-0" Hydraulically operated slide gates
Sluice gate trashrack structure
El. 1050.0 ℄ 5'-8"x 10'-0" Hydraulically operated slide gates
Sluice gate trashrack structure
El. 935.0 ℄ 5'-8"x 10'-0" Hydraulically operated slide gates
Inspection galleries
Note:- Elevation and shape of spillway apron to be determined by model tests.
Assumed Max W S Q = 1.000.000 s.f.
W.S El. 938.5 Q = 30.000 s.f.
4:1
El. 865.0
El. 870.0
El. 890
El 880.
Grout holes
Drains

capacity would have to be doubled by 1940.

It is estimated that almost all the major hydro-electric developments now under construction or started will have been absorbed by 1940, which is the earliest date that power from the Columbia River Basin development could be made available. Estimates for future power demand, according to the assumed rate of increase, indicate that a 3,000,000-kw. increase in generating capacity would have to be provided during the fifteen-year period from 1940 to 1955, whereas the proposed installation at the Columbia River plant is 1,500,000 kw. "In other words, the proposed installation of 1,500,000 kw. would take care of approximately half the expected increase in power requirements during a fifteen-year absorption period. The other half of the expected increase would have to be provided by other hydro or steam developments.

"With proper cooperation on the part of the various power companies and municipalities which will have to absorb the power output of the proposed Columbia River development, no serious difficulty should arise in connection with the absorption of this large block of power within fifteen years after the initial installation is completed, and it might be possible that the full output could be absorbed in a shorter time. The economic feasibility of the project is dependent to a large degree on the rapidity of absorption of the power, particularly during the early years of operation when the revenues from power will be insufficient to meet the annual expense and deficits will be inevitable."

After a detailed study of competitive power in this area, both from future hydro-electric plants and from steam generation, the report finds that a value of 2.25 mills per kilowatt-hour would be sufficiently attractive to induce power companies and municipalities to purchase energy in lieu of constructing additional power plants. The revenue would be sufficient to repay the cost of the Columbia River dam and power plant, with interest at 4 per cent per annum within 50 years, in addition to providing for the operation, maintenance and depreciation of the dam and power plant, and would also provide a surplus of about $144,000,000, which would be available for repayment of the cost of the irrigation development and other purposes.

Irrigation development

Statements in the report on the *economic* feasibility of the irrigation development are confined to two short paragraphs, which state: "The lands to be irrigated on the project are well adapted to the production of alfalfa, sweet clover, potatoes, corn and small grains. It is expected that the farm production will be largely fed to livestock and converted into beef, pork and mutton. Dairying and poultry raising will also find a place in the farm program. With a proper rotation program and with a normal price relation between products of the farm marketed and those purchased, it is expected that the land will be able to meet an annual charge not to exceed $5.25 per acre for irrigation benefits.

"While the foregoing charges are assumed to be borne entirely by the land and can only be realized by providing interest-free money for the entire irrigation investment and by assuming that about one-half of the irrigation investment is repaid from surplus power revenues, there are other interests than irrigation which will be greatly benefited by the proposed development, and the charges accruing against the land might be reduced by applying an ad valorem tax to all property benefited within the irrigation district as provided by Washington state law."

SUMMARY OF ESTIMATED COSTS FOR COLUMBIA RIVER BASIN PROJECT

	Ultimate Development
Columbia River dam	$125,750,000
Columbia River power plant	42,616,000
Total power	$168,366,000
Interest during construction	*
Primary pumping plant	8,890,000
Repumping plant	7,525,000
Grand Coulee storage	8,703,000
Canals	79,307,000
Tunnels	22,778,000
Siphons	37,595,000
Lateral system	28,516,000
Drainage	4,800,000
Buildings	1,484,000
Telephones	240,000
Wasteways	2,230,000
Wells	200,000
Oper. and maint. during const.	5,997,000
Total irrig. cost	$208,265,000
Total project cost	376,631,000
Per-acre cost of irrig. proj	173.55
Per-acre cost per year (40 years)	4.34
Power and Irrigation Data	
Power-plant installation, hp	2,100,000
Primary power, hp	1,067,000
Pumping-plant installation, hp	660,000
Irrigated area, acres	1,200,000
Pumping capacity (primary lift), sec.-ft	16,000

*This item is not included in the tabulation in the body of the report but is listed in the summary at $17,524,000.

Elsewhere in the report it is estimated that the surplus power earnings, if made available for carrying part of the irrigation investment, would reduce the construction charges to be paid by the land, beginning four years after settlement, to a rate of $2 per acre for the next four years and $2.50 per acre for the following 32 years, without interest.

Physical features of the irrigation development are considered in some detail in the report dealing specifically with the initial development of 150,000 acres near Quincy. From the discharge of the main pumping plant the irrigation supply would flow through the Grand Coulee Canal 1.7 miles to the reservoir provided by damming both ends of the Grand Coulee. This reservoir, 23 miles long, avoids the use of a canal along the wall of the coulee, saves a 47-ft. loss in elevation at the outlet end and provides for more efficient use of the distribution and pumping system because of the regulation provided. At the north or upper end of the Grand Coulee an earth-fill dam 92 ft. high, with flat slopes and a downstream section of gravel fill, is proposed. An emergency wasteway also is provided for a return outlet to the river. At the other end of the coulee a gravel-fill dam 97 ft. high is proposed.

Canal capacities below Grand Coulee reservoir are estimated at 1 sec.-ft. per 80 acres on areas in excess of 100,000 acres, 1 sec.-ft. per 70 acres for areas between 100,000 and 50,000 acres, 1 sec.-ft. per 65 acres for areas between 50,000 and 25,000 acres, and 1 sec.-ft. per 60 acres for areas between 25,000 and 6,000 acres. All canals are to be provided with reinforced-concrete lining varying in thickness from a maximum of 12 to a minimum of 4 in. Tunnels are designed of horseshoe type with depths of water at 83 per cent of the diameter and are to be lined throughout with concrete; reinforced-concrete or steel pipes carry the canals across streams and coulees.

The lateral system provides for delivering water to each 160-acre farm. Where these ditches are excavated in gravel or other porous material they would be lined with reinforced concrete. The lateral system under the main West Side Canal is believed to require only a small amount of concrete lining and is estimated to cost $21 per acre; under the Main East Canal the amount of concrete lining would be greater, and this lateral system is estimated to cost $25 per acre.

Natural drainage channels occur in parts of the area, but some drainage ditches will be required to carry off waste and seepage water. It is estimated that $4 per acre is sufficient for providing the required drainage system.

Irrigation of Quincy area

It is proposed that the first irrigation unit be an area of 150,000 acres, known as the Quincy area, which would involve the least investment in pumping machinery, pipe lines and structures. This development would not interfere with and could be built to fit into the ultimate plan. It is proposed to develop this 150,000-acre unit in blocks of 20,000 acres per year, with the first section to be irrigated the year following completion of the Columbia River dam. The development of this initial unit would require completion of the Columbia River dam and power plant, initial installation of four pumping units, completion of the canal, with reinforced-concrete lining, from the pumping plant to Grand Coulee reservoir to an ultimate capacity of 16,000 sec.-ft., the north Grand Coulee dam completed to ultimate height and a temporary dam at the south end of the Grand Coulee. From Grand

Coulee the conduit would be built to the proposed area at its ultimate capacity.

The ultimate irrigation development provides for a main canal extending 11.7 miles south from the end of the Grand Coulee reservoir to a point where it branches into two canals. The Main West Canal extends generally southwest with lateral distribution systems supplying water to 371,000 acres, all of which is under the primary pumping lift and will not require repumping. The Main East Canal extends generally southeasterly and has a lateral distribution system supplying water to 829,000 acres. Of this area 219,000 acres will require the water to be repumped for an additional lift of 100 ft. It is proposed that the power for this repumping will be developed by power plants operating on the drops in the main canal line.

Guard-Rail Practice Varies on Railway Bridges

GUARD-RAILS on railway bridges constitute an item of track and bridge-floor construction that has not been standardized, although there is a general similarity of practice in the design and location of these guards for the protection of derailed trains or cars. In reviewing the varying practice on a large number of railways a committee of the American Railway Bridge and Building Association comes to the conclusion that both forms of guards are desirable. On railway-bridge floors, says the committee in its report, the function of the inside guard-rail is to keep derailed equipment within such bounds that a minimum of damage to structures and track will result. The function of the outside guard-rail is to insure normal tie spacing and to prevent bunching of the ties in case of derailment. In the *Manual* of the American Railway Engineering Association are recommendations that may be summarized as follows: (1) outside guard-timbers on all open-floor bridges, so constructed as to properly space the ties and hold them securely in place; (2) inside guard-rails on all open-floor bridges, on the outside tracks of all main-line solid-floor bridges longer than 20 ft. and on similar branch-line structures where the speed exceeds 20 miles per hour; (3) where both guards are used, they shall be so spaced in relation to the track rails that a derailed truck will strike the inside guard without striking the outside guard.

Inside guard-rails

General Practice—Of 42 railroads, 41 use inside guards, only one road dispensing with them. They are usually T-rails spaced 8 to 10 in. from the running rail (or 12 and 13½ in. on two roads). They are extended far enough beyond the entering end of the bridge to straighten out derailed trucks before they reach the structure. In a majority of cases this minimum distance is 50 ft., but the range is from 30 to 100 ft. At the leaving ends of multiple-track bridges the guard-rails are extended from 8 to 100 ft. There is no agreement as to inside guard-rails on multiple-track bridges; many roads provide them on each track, others on outside tracks only, and some provide one guard-rail adjacent to the inside running-rail of the outside track only. In most cases the ends of the guard-rails are inclined together on the entering approach and connected to a frog or casting on the center line.

Variations from general practice, as used in a few cases, include: (1) three lines of guard-rails between the track rails; (2) two lines of structural-steel angles, each backed by a flat timber, the horizontal legs of the angles being turned inward and the vertical legs 10 in. from track rails, while a second timber is laid close to the outer side of each rail; (3) 8x6-in. timbers having their top inner edges protected by 6x4-in. angles. The second plan is used on many large steel bridges and also on some solid-floor unballasted track elevation bridges. Ballasted-deck structures usually have the same guard-rails as on open decks, but some roads use them only for such bridges on curves or where local conditions require them. Pile and frame bridges and trestles on many roads are not equipped with inside guards, except on curves.

Outside guard-rails

Of 42 railroads, all but one use outside guards, and 40 of these use timber guards. One road omits outside guards entirely on account of snow flangers fouling them; one uses steel T-rails exclusively, and one uses both timbers and 6-in. steel channels filled with cement mortar. Their distance from the gage side of the track rail ranges from 10¾ to 36¾ in., but it is always beyond the reach of derailed trucks that are held in line by the inside guard-rails. A point noted by the report in favor of having the outside guards relatively distant from the track rails is that in case derailed trucks should jump the inside guard-rail an outside guard too near the track would engage the opposite wheels and thus cause further slewing of the trucks, with probable serious damage to the structure. These guard-timbers usually do not extend beyond the bridge floor.

Guard-timbers are often dapped or boxed ½ to 2 in. deep to serve as tie spacers and hold the ties in place. But timbers not dapped seem to be equally favored, and the trend is to omit the dapping, as is recommended also in the A.R.E.A. *Manual*. The outside guards of 6-in. steel channels, noted above, have short pieces of 4-in. channels riveted across the bottom to form tie spacers. Wood and malleable-iron spacing blocks are used in several cases; these are nailed to the sides of the ties and near their ends, but one road uses a third row of blocks at the center line of the track. An alternative plan is to place toothed iron plates or blocks between the guard-timbers and the ties, the teeth biting into the wood above and below and so holding the parts together.

Rerailer guards

Devices for replacing derailed wheels on the rails before entering the bridge are used to a limited extent on a few railroads but are not mentioned in the report. Castings bolted on each side of each track rail have inclined surfaces to carry wheels, riding on their flanges, up to the level of the top of rail head. Flaring vertical wings engage the wheels at the same time and thus force one wheel inward until its flange drops on the inside of the track rail, while the other is forced outward until its tread rides on the track-rail. These castings fit between the track-rail and inside guard-rail and between the track-rail and a short flaring guard-rail on the outside. The rerailers are placed about 60 ft. from the bridge.

Recommended practice

In the opinion of the committee it is advisable to use inside T-rail guards about 9 in. from the track-rails and also outside guard-timbers about 18 in. from the track-rails. Since the latter may prevent serious damage in case of derailment, it is not desirable to eliminate them, but it appears desirable to increase their effectiveness by reinforcing them with tie spacers.

Water, Sewerage and Power Districts in Germany

Two districts that plan to exercise a broad range of functions have recently been organized in Germany in the areas centering around Dresden and Chemnitz. There are numerous sanitary districts in Germany of the same type as those existing in the United States, and some of them, such as the Ruhrverband, cover an entire stream drainage area. The two new districts, however, are planned to deal with water supply, storage, sewage treatment, river pollution and hydro-electric power generation. Just at present the districts are doing only preparatory planning, as money for construction cannot now be obtained. This condition is probably the chief reason also why the large drainage and stream-purification district projected near Leipzig, the Wassergenossenschaft Weisse Elster, has not yet been formally organized.

Long-Span Platform Roofs for Cincinnati Station

Girders continuous over three 80-ft. spans in steel-frame flat shelter roofs—Span adapted to average length of passenger cars

By O. S. Payzant
Engineering Associate, Fellheimer & Wagner, Architects and Engineers, New York City

CANOPY shelter roofs for the passenger platforms of the new Cincinnati union station have unusually long spacing between supporting columns in order to limit the number of foundations, which are of wood piling with concrete caps on account of the comparatively new fill over soft ground. A span of 80 ft. was selected as being the average length of passenger cars, so that all car steps of a train will be clear of columns when the proper train stop is made. These roofs are flat, 19, 25½ and 32 ft. wide. Their design and steel construction are shown in the accompanying drawing.

In each roof the main support is a longitudinal girder on the center line, designed as a continuous member in groups of three 80-ft. spans, with rigid longitudinal column brackets simulating an arch. Each 240-ft. length of the canopy is therefore practically an independent structure, as the expansion joints between the sections extend down to the foundations. The twin columns thus formed, except for being slightly larger, are similar in general appearance to the intermediate columns.

Twist from wind or eccentric snow loading in the center of the spans is restrained by diagonal members from the middle of the main girder to the outer ends of the transverse brackets at the columns. Although the longitudinal beams near the edges of the roofs are 80 ft. long between the column brackets, they are only 12 in. deep, since they are divided into short spans by the intermediate transverse beams that cantilever from a fulcrum point furnished by the diagonal beams.

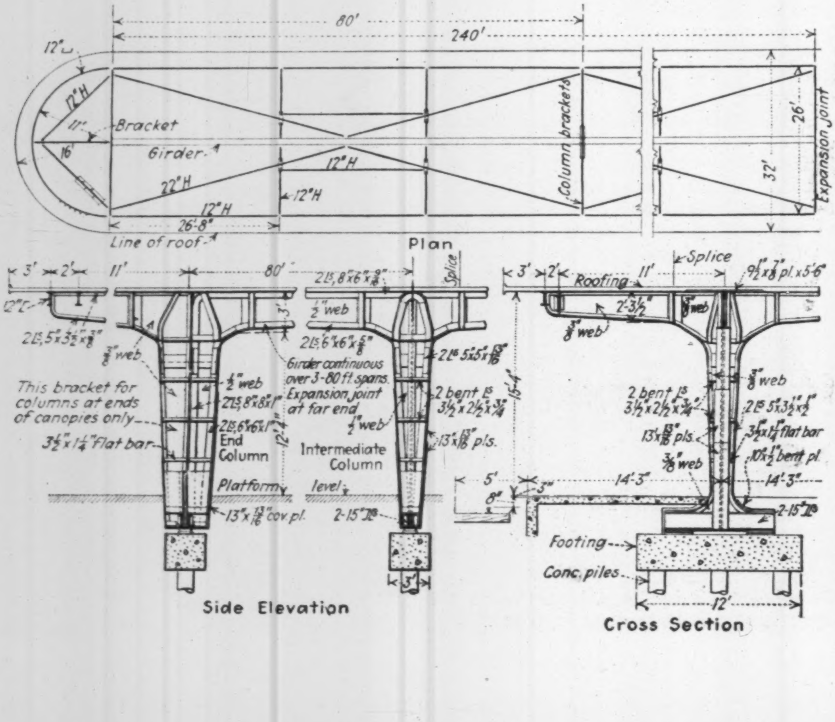
The uplift from these cantilevers at the main center girder and the direct bearing on the diagonal members relieve the center-line girder from a considerable portion of the roof load stress, which is diverted to the transverse brackets of the columns. Upon the framing are ribbed-steel sheets covered with ½-in. insulating material and ½-in. composition roofing.

The drainage of the roofs, which are flat transversely and on a grade of 3½ in. per 100 ft. longitudinally, is by means of a 6-in. pipe leader installed within one column of each 80-ft. length. This relatively large size of pipe is used to guard against ice choking in winter.

The facia members of the canopy are extended above the roof plane to form curbings. Sheet copper inserts filled with mastic are used to seal the expansion joints across the roof.

This canopy construction was designed by Fellheimer and Wagner, New York, architects for the station, under the direction of the writer as engineering associate. The steelwork was fabricated by the R. C. Mahon Co., Detroit, Mich. H. M. Waite is chief engineer of the Cincinnati Union Terminal Co.

Steel framing for platform roofs of Cincinnati union station is made in three-span lengths.


80'
240'
12"⌐
12"H
11'
Bracket
16'
Girder
22"H
12"H
12"H
12"H
Column brackets
26'
32'
Expansion joint
26'-8"
Line of roof
Plan
3'
2'
11'
80'
2Ls, 8"x6"x9/16"
Splice
12"⊏
2Ls, 5"x3½"x3/8"
3/8" web
3'
½" web
2Ls, 6"x6"x5/8"
2Ls 5"x5"x13/16"
Girder continuous over 3-80 ft. spans. Expansion joint at far end
This bracket for columns at ends of canopies only
½" web
2Ls, 8"x8"x1"
2Ls, 6"x6"x1"
End Column
12'-4"
½" web
2 bent Ls 3½"x2½"x3/4"
3½"x1¼" Flat bar
Intermediate Column
13"x13/16" pls.
Platform level
13"x13/16" cov. pl.
2-15"⊏s
3'
Side Elevation
Roofing
Splice
9½"x7/8" pl. x 5'6"
2'-3½"
3/8" web
3/8" web
15'-4"
3/8" web
2 bent Ls 3½"x2½"x3/4"
2Ls 5"x3½"x½"
13"x13/16" pls.
3½"x1¼" flat bar
10"x½" bent pl.
3/8" web
5'
3"
8"
14'-3"
14'-3"
2-15"⊏s
Footing
Conc. piles
12'
Cross Section

◆

Sewage Screenings and Grit to Be Incinerated at Milwaukee

Coarse and fine sewage screenings and grit of the Milwaukee sewage-treatment works are to be burned at some future date after being put through centrifuges at 560 r.p.m. The incinerator plant is now under construction and will be completed this fall. The plant is to consist of two units, each capable of handling 20 tons of screenings and grit per 24 hours. D. W. Townsend, principal assistant engineer, Milwaukee Sewerage Commission, described the plant at the recent Rockford (Ill.) meeting of the Central States Sewage Works Association and the Illinois Association of Sanitary Districts.

There will be an unobstructed sloped and drained charging floor with three charging holes per unit to facilitate the introduction of material and to permit spreading it out before charging. About 105 sq.ft. of refractory surface area per ton is to be provided. Most of the material's moisture content is inclosed within the cell structure, requiring the material to be spread out to break down the greatest number of the cells and to obtain a large evaporating and heat-absorbing surface. Many stoking doors will make all parts accessible. To eliminate odors the gas will have to travel over a long path.

Tests indicated that the silica in the grit fuses at the 1,250-deg. F. temperature and renders iron grates useless, so refractory materials are to be installed.

Analyses indicate that 1 lb. of centrifuged material, mixed in the proportions produced by the fine screens, the coarse screens and the grit chambers, will contain 9,000 B.t.u. As there are 420 lb. of combustibles per million gallons, it is calculated that 15 gal. of oil will be required per ton of 65 per cent moisture material. Costs are expected to run between $0.75 and $1 per ton for incineration. To this must be added about $1 per ton for interest, depreciation, maintenance and labor charges. These figures are to be viewed only in the light of affording an approximate idea of possible relative costs.

Lime and Zeolite Softening Combined in New Plant

Hardness of well water is reduced by lime softening to the limit of that process, after which zeolite filters completely soften half the flow, which is then mixed with the remainder

By the late Earl I. Roberts
Of H. P. Jones & Co., Consulting Engineers, Toledo, Ohio

ON MAY 4, 1932, the author of the following article met death at the sewage plant at Lima, Ohio, by being overcome by sewage gas. He had gone to the rescue of the plant operator who had also been overcome while collecting samples of sludge in a manhole. Mr. Roberts had been with the Ohio state board of health and with W. G. Clarke, consulting engineer, Toledo, Ohio, before joining the staff of H. P. Jones & Co. The design of the softening plant described in this article was one of Mr. Roberts' assignments while in his last connection. —EDITOR.

BOTH the lime and zeolite methods of water softening are being used in combination at the new municipal plant recently put in operation at Findlay, Ohio. The well water of the city is unusually hard and is treated first with lime. Part of the lime-softened water is then softened completely by passing through zeolite filters, after which it is used to dilute the remainder, resulting in a combined effluent of the desired degree of softness. Economies in operation, resulting from a redesign of the methods of pumping and storing the water, have more than offset the cost of the softening process.

Findlay has a population of 19,000 and an average water consumption of 1.9 m.g.d. It is located on the Blanchard River, a small stream having a watershed area above the city limits of 246 square miles. The first public water supply was obtained from this river in 1888, but in 1904 a new supply was developed from drilled wells located 9 miles east of the city, pumped by air lift and delivered through a 24-in. gravity conduit to the old high-lift pumping station. The well supply is clear and cool but very hard. The hardness over a period of five years averaged 405 p.p.m. made up of 263 p.p.m. of alkalinity and 142 p.p.m. of non-carbonate hardness. Magnesium amounts to 37 p.p.m.

In 1929 the city decided to make improvements in its waterworks system. After a careful study it was decided to utilize the well supply, to provide an emergency supply from the Blanchard River, and to construct a complete new electrically operated pumping station and a water-softening and purification plant, using a combination of the lime and the zeolite softening processes.

The plant was designed for a delivery of 4 m.g.d., with provision for expansion to 8 m.g.d. The softening process adopted consists of reducing the hardness as low as possible with lime, then treating 50 per cent of the lime-softened water with zeolite, softening that portion complete and mixing the lime- and zeolite-softened waters in proper proportions to obtain a final product of desired hardness.

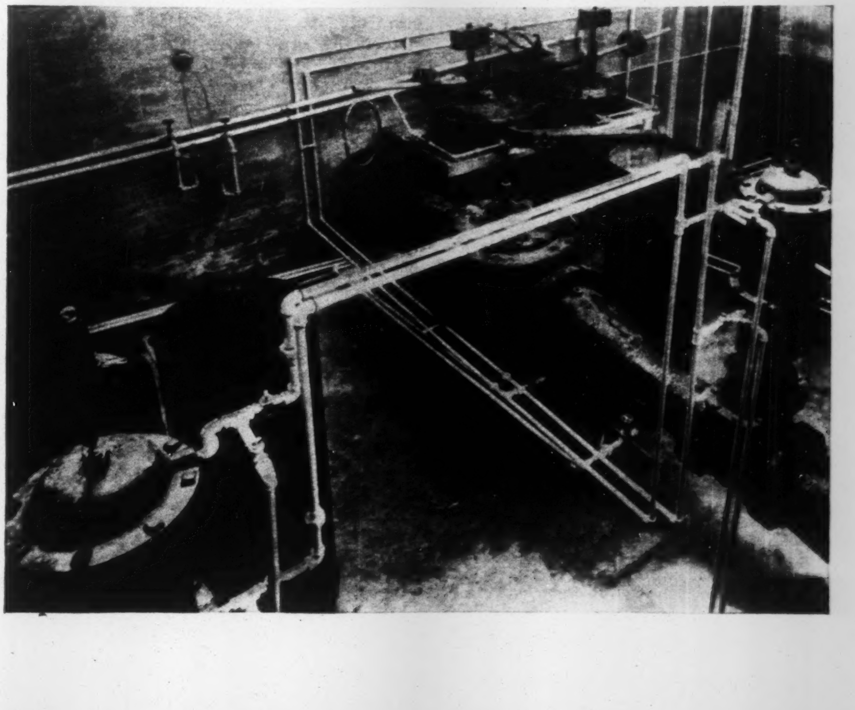
The plant consists of a raw-water storage basin, eight mixing tanks, two sedimentation basins, one carbonation chamber, one recarbonation chamber, four rapid sand filters, three zeolite filters, a pipe gallery, two clear wells, proportioning devices, chemical feed devices, washwater tank, pumping station and elevated storage tank.

Water flows by gravity from the wells, or from the Blanchard River during emergencies, to the raw-water storage basin, which has a capacity of 1,000,000 gal. This basin was necessary to care for fluctuating demands that could not otherwise be met, owing to the long time required for water to travel from the wells to the plant. From the raw-water basin the water is pumped to the mixing tanks, through a 20-in. force main by four electrically operated low-lift centrifugal pumps having capacities of 2, 3, 4 and 5 m.g.d., respectively. Just before reaching the mixing tanks the raw water passes through a meter, which, through electrical connections, controls the amount of lime applied. The mixing tanks are located in two rows of four each and are 16x19 ft. in plan with an effective depth of 15 ft., giving a mixing period of $1\frac{1}{2}$ hours when the flow is 4 m.g.d. Each tank is equipped with a mixing device consisting of paddles attached to a vertical shaft capable of being operated at 3, 4 or 5 r.p.m. The rectangular tanks used have eliminated much of the dead-water area ordinarily found around the shaft in circular or square tanks. The tanks are all interconnected at top and bottom and are controlled by means of stop gates and sluice gates. Raw water may be discharged into any one of the first four tanks and discharged from any one of the last four into a flume leading to the sedimentation basins.

The two sedimentation basins are located adjacent to the mixing tanks, with the carbonation chamber between them. Each clarifier is 50x50 ft. in plan and has an effective depth of 11 ft., giving a detention period of $1\frac{1}{4}$ hours. Mechanical equipment is provided for concentrating sludge at the center of each tank. From there it can be pumped into a sewer leading to the river or returned to the mixing tanks, as desired.

The carbonation chamber is 20x50 ft. in plan, with an effective depth of 11.5 ft., having a detention period of $\frac{1}{2}$ hour. It can be bypassed by a 24-in. line in the chamber. The recarbonation chamber is 2 ft. wide, 40 ft. long and 7 ft. deep and forms the effluent flume

Fig. 1—Rate controllers are used to proportion the mixing of lime-softened and lime-zeolite-softened water. Separate storage wells are provided for the two waters, from which they pass through the two controllers to a mixing well.



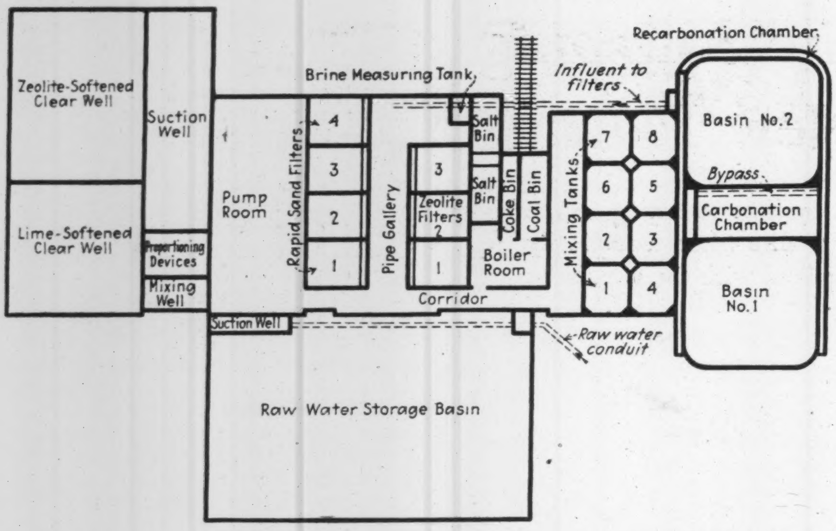


Fig. 2—Location and arrangement of units at the Findlay, Ohio, softening plant.

leading from the second clarifier to the filters.

The flumes and connections have been arranged so as to provide considerable flexibility and to permit the water to be treated in a number of different ways, as follows:

Water may be passed through four mixing tanks, basin No. 1, carbonation chamber, four mixing tanks, basin No. 2, recarbonation chamber, and on to the filters.

Water may be passed through all eight mixing tanks, basin No. 1, carbonation chamber, basin No. 2, recarbonation chamber and on to the filters.

Water may be passed through four mixing tanks, basin No. 1, four mixing tanks, basin No. 2, carbonation chamber, and on to the filters.

The flow may be split and each half passed through four mixing tanks, thence to the basins in parallel, thence to the carbonation chamber and on to the filters.

The filters are of the conventional rapid sand type designed for a high rate of wash. There are four units each, with a capacity of 1 m.g.d. at a rate of 125 m.g.d. per acre. They are equipped with hydraulically operated gate valves.

On account of possible lime deposits on top of the sand a high-pressure scrubber system has been installed 2 in. above the sand surface, consisting of ten 1½-in. laterals spaced 24 in. apart. Each pipe has two rows of 3/16-in. holes on 9-in. centers, located on the lower side 120 deg. apart. This scrubber system is controlled from the operating table and is used in conjunction with the washwater whenever it is deemed necessary.

After the lime-softened water has been filtered it is stored in a well having a capacity of 486,000 gal. From there a portion is pumped by three secondary-lift pumps to the zeolite filters. These pumps are of the motor-driven centrifugal type and have capacities of 1, 2 and 3 m.g.d., respectively.

There are three zeolite filters located across the pipe gallery from the sand filters, each with a capacity of 1 m.g.d. They are similar in construction to the sand filters, except that there is no scrubber system and that 30 in. of zeolite has been used instead of 26 in. of sand. They can be easily converted into rapid sand filters if this should ever be thought desirable. While these filters have been designed for a high rate of wash, they are only washed at a rate equivalent to a vertical rise of 13 in. per minute, which is all that is necessary to keep the zeolite clean.

Brine used for regeneration is pumped from the brine-measuring tank to the filers by a small motor-driven centrifugal pump operated by a push button at the operating table. The brine-distribution system in the filters consists of two 4-in. and two 3-in. cast-iron lines connected to a header system, the whole placed 12 in. above the top of the zeolite. Each of the 4-in. lines is placed between two washwater troughs, and the 3-in. lines are placed adjacent to the filter walls. All lines are drilled with ¼-in. holes on 6-in. centers along the horizontal diameter of the pipe. The 3-in. lines are drilled on one side only. This system of brine distribution has proved very satisfactory to date.

After the water has been softened to zero hardness by passing through the zeolite, it is stored in a second storage well having a capacity of 432,000 gal.

In order to proportion properly the lime-softened and zeolite-softened waters, the water from each clear well passes through a rate controller to a mixing well, which in turn is connected through a venturi meter to the suction well of the high-lift pumps. The amount of water passing through each rate controller is determined by lever settings on the operating floor of the pump room. Under maximum conditions it requires about 18 in. of head to operate the rate controllers at their rated capacity, and in case the difference in water level between either clear well and the mixing tank falls below 18 in. a pressure diaphram operates a pilot valve that closes hydraulically operated gate valves located ahead of the rate controllers until the difference in head again reaches 18 in., when they automatically open. In this way the rate controllers always operate with sufficient head to furnish the rate of flow for which they are set, and there is no possibility of reversal of flow due to unequal water levels in the two clear wells.

Chemicals used in connection with softening the water consist of quicklime and salt. These are delivered to the plant in box cars over a siding connected to the N.Y.C. Railroad. Quicklime is unloaded by a vacuum system that draws the lime from the cars through a flexible pipe line to a screw conveyor located over the two lime bins. Each bin is directly over a lime-feed machine, where the lime is weighed, slaked and fed in proportion to the amount of water being treated. Each

Fig. 3—The eight mixing tanks are rectangular in shape to avoid dead water at the center and are equipped with motor-driven paddle wheels.

lime bin has a capacity of 60,000 lb. A car of lime can be unloaded in from four to five hours.

Salt used for the brine for regenerating the zeolite filters is delivered over the same tracks. Beside the tracks there are two salt bins in the bottom of which is a drainage system covered with sand and gravel. These bins are filled with water, and there is always enough salt kept in them to assure a saturated solution. The brine passes through the under-drain system to a brine well from which it is drawn to the measuring tank.

Directly beneath the unloading tracks are the coke and coal bins. Coal is used for heating the plant in winter, and coke for generating CO_2 gas is used in the carbonation and recarbonation chambers.

The coke is burned in a boiler for heating the water used about the plant and for slaking lime. The flue gases are drawn through a scrubber consisting of a steel cylinder filled with limestone, through which water trickles. The gases are drawn into an air compressor and from there are delivered to the carbonation and recarbonation chambers. The compressor is equipped with a variable-speed motor to permit regulation of the amount of gas applied to the water.

In the pumping station, in addition to the low-lift and secondary-lift pumps, are three electrically driven high-lift pumps having capacities of 2, 3 and 4 m.g.d. In addition to these electrically operated pumps are two gasoline-engine-driven pumps, each having a capacity of 4 m.g.d. For stand-by power for the low-lift and secondary-lift pumps, the lighting system and other small electric power units, two gasoline-driven generator sets have been installed. The value of this emergency equipment has already been well demonstrated. Shortly after the plant was placed in operation the local power plant broke a 12-in. steam main, resulting in the loss of outside power for more than six hours. In less than 3 min. the new plant was operating as usual on its emergency equipment.

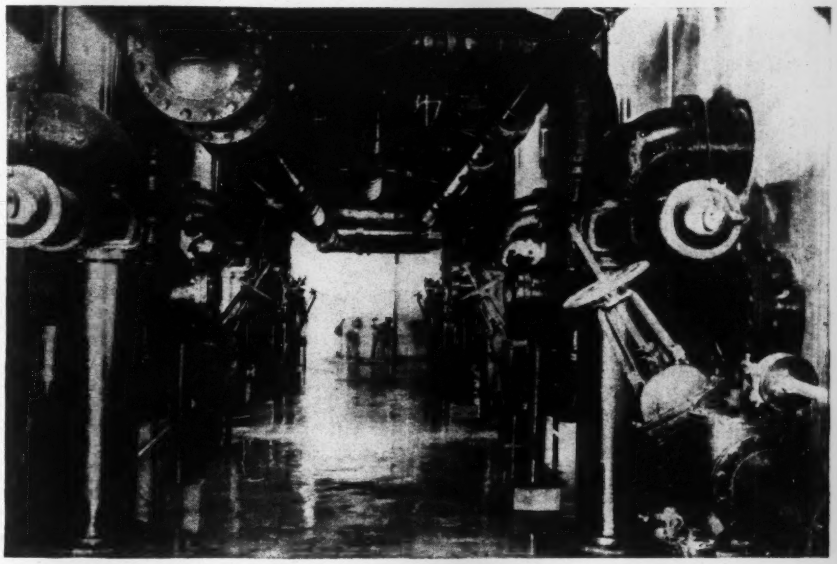


Fig. 4—A wide, roomy pipe gallery is provided. In this view the zeolite filters are on the left and the sand filters on the right.

At the old plant steam pumping units had been used, which delivered water directly into the mains. Near the pumping station was a large reservoir into which the excess not required for consumption in the city was discharged. During the hours of low consumption at night the pumps were kept running continuously, and practically all the water pumped was delivered to the reservoir and then pumped out again. The main supply from wells some 10 miles away was brought to the pumping station by gravity, so naturally the quantity delivered to the pumping station was constant throughout a 24-hour period.

At the new plant, elevated storage is provided and electrical pumping equipment is used. It is possible, therefore, to take care of low flows out of the storage tank, minimizing the number of hours that the electrical units are required to be in operation. The savings thus introduced are enough to enable the plant's revenue to pay for the cost of operation and the interest and amortization of the investment without any increase in rates.

The plant has been in operation since October, 1931, and results to date have been quite satisfactory. The reduction in hardness and the cost of chemicals for the first four months of full operation are shown in Table I. From this table it will be noted that there has been a steady drop in the hardness of the raw water. This is the result of elimination of the hardest wells in the well field, together with the seasonal lowering of hardness. The cost of chemicals for softening, as shown in Table I, is gratifying and is reflected in the operating cost data set forth in Table II. Figures set forth under expense do not include interest and sinking-fund charges, which are also borne by the water rates.

The new plant is being operated by the same men that operated the old pumping station, with the addition of a superintendent of filtration, A. V. Foltz, who worked in cooperation with the resident engineer during the construction of the plant. The plant was constructed under four different contracts with costs as follows:

Intake and 36-in. conduit connecting old plant to new	$44,674
Softening and purification plant, including pumping station ut ot pumps	381,411
Pumping quipment and emergency generator sets	27,161
Elevated storage	36,581
Total	$489,827

Much of the credit for the ability of the city to finance and operate the new plant out of earnings must be given to Otto C. Gohlke, city engineer and superintendent of waterworks, whose wholehearted support and cooperation in the development of this project we wish to acknowledge.

TABLE I — WATER TREATED, HARDNESS AND COST OF REMOVING HARDNESS

Month, 1931–1932	Gallons of Water Treated, Daily Average	Hardness in P.P.M.					Cost of Removing 1 P.P.M. Per Million Gallons
		Raw					
		Alkalinity	Non-Carbonate	Total	Lime-Softened	Lime-Zeolite-Softened	
Oct.	1,271,000	312	200	512	244	131	$0.064
Nov.	1,172,000	299	123	422	182	98	.063
Dec.	1,093,000	288	97	385	142	82	.058
Jan.	1,117,000	241	115	356	156	88	.065*

*Cost of alum is included in this figure. No alum used during other months.

Cost of chemicals: lime, $8.55 per ton; salt, $8 per ton; alum, $24.70 per ton.

TABLE III — RATES CHARGED FOR WATER AT FINDLAY, OHIO

Minimum charge per year	$7.80
First 2,000 cu.ft. per month, per 100 cu.ft	0.22
Next 2,500 cu.ft. per month, per 100 cu.ft	0.20
Next 3,500 cu.ft. per month, per 100 cu.ft	0.15
All over 8,000 cu.ft. in each month, per 100 cu.ft	0.09

TABLE II — REVENUE, EXPENSE AND NET OPERATING INCOME FOR ENTIRE WATERWORKS SYSTEM

Month	Old Plant With Hard Water, 1930-31			New Plant With Soft Water, 1931-32		
	Revenue	Expense	Net Operating Income	Revenue	Expense	Net Operating Income
October	$8,625	$4,869	$3,760	$7,326	$6,030	$1,295
November	7,388	4,790	2,597	6,451	4,494	1,957
December	7,411	5,693	1,717	6,619	4,681	1,937
January	6,543	5,367	1,176	6,269	4,579	1,690
February	6,365	4,215	2,150	6,158	5,478	680
March	7,620	3,883	3,736	6,437	3,529	2,908
April	6,184	3,481	2,703	6,158	4,075	2,083
Total	$50,142	$32,300	$17,841	$45,421	$32,868	$12,553

Cost of Soap Waste Determined for Hard-Water Cities

Field survey of retail soap sales made in towns of the Middle West—Data for Superior, Wis., having soft water, used as basis for computing waste in other cities

THE FOLLOWING article is an abstract of a paper presented at the recent meeting of the Illinois section of the American Water Works Association by H. W. Hudson, assistant professor of economics at Butler University, Indianapolis, Ind., and Prof. A. M. Buswell, chief, Illinois water survey, Urbana, Ill. The survey described was undertaken by Professor Hudson under the auspices of the graduate school of economics of the University of Illinois and will be published at some future date as a thesis. —EDITOR.

A DIRECT relationship between the hardness of the water supply and the amount of soap consumed domestically was demonstrated recently in a field survey of retail soap sales in four cities of the Middle West: Superior, Wis., Bloomington, Champaign-Urbana and Chicago Heights, Ill. The water in Superior is naturally soft, and the soap consumption in that city was used as a base in determining the amount of soap wasted in the hard-water cities. The water in Bloomington is now softened in the municipal water plant, although it is still harder than the supply at Superior, and the Champaign-Urbana and Chicago Heights waters are quite hard. Based on Superior's soap use, the waste in Chicago Heights, where the water contains 555 p.p.m. of hardness, amounts to $3.67 per year per capita, or more than half the cost of the soap purchased.

The study dealt with the effect of quality of water on soap consumption in the home only. To obtain the desired information, a market survey of retail soap distribution was conducted in the four cities. Commercial laundries were not included in the study because most of them now use soft water in their work regardless of how hard the city supply may be. Industrial use of soap was also excluded because industries vary in type from city to city. Certain industries use considerable quantities of soap, while other use none.

Chicago Heights has the hardest water of any city in Illinois, averaging around 555 p.p.m. total hardness. Bloomington, once having the hardest water in the state, now softens its supply to an average hardness of 70 p.p.m., or softer than cistern water. Many people in Bloomington are still using cistern water, however, either from habit or because they do not care to change their plumbing so long as it is in good condition. The Champaign-Urbana water supply is considered to be of medium quality and averages 298 p.p.m. total hardness. Superior, Wis., was included in the study because of the naturally soft water supply available, having 45 p.p.m. of hardness. Also, the surrounding trade territory has the same general type of water. Considering all factors, Superior seems to be the most satisfactory base with which to compare other cities. It would be impossible to find a city having water of zero hardness.

All kinds of soaps and soap products sold at retail in the various cities are included. Results are given in weights as well as in dollars in order that they may be significant, regardless of price changes in the future.

The personal-interview method was used to collect the data. A thorough canvass of each city was made to find every retail store handling soap. Each of these retailers was approached by a personal investigator and asked to furnish the desired information. Although this method seemed the most practical, certain difficulties were encountered. It was impossible, for example, to obtain 100 per cent returns in any city. Each city sells a greater or less amount of soap to the surrounding trade territory. The extent of the trade territory is influenced by local conditions. In the case of Bloomington the type and quality of water used in the surrounding area is quite different from that used in the city. Many cisterns and water softeners are used in Chicago Heights and Champaign-Urbana. These facts have been taken into consideration and the original data corrected for errors accordingly.

As indicated by Table I, Superior uses 27.5 lb. of soap per capita annually. Even with its relatively soft water, a considerable quantity of soap is required to remove dirt and grease. If it were possible for a city to obtain a water supply of zero hardness, it probably would still use between 20 and 25 lb. of soap per capita.

Compared to Superior's soap consumption of 27.5 lb., Bloomington us 30.8 lb. per capita, while Champaign-Urbana and Chicago Heights use 37. and 44.9 lb., respectively, with the waters of 298 and 555 p.p.m. total hardness. The per-capita costs in these fou cities are, in the order named, $3.60 $4.20, $5.58 and $7.27.

Taking Superior as a base for comparison, the per-capita soap waste is 3. lb. for Bloomington. This waste cost the Bloomington citizen 60c. and represents 10.7 per cent of his total soap purchases. The annual per-capita waste of soap in Champaign-Urbana i 10.4 lb., which costs $1.98 and amount to 27.4 per cent of the total now consumed. Chicago Heights, with its hard water, wastes annually 17.3 lb. of soap per capita, costing $3.67 and amounting to 38.6 per cent of the total soap used.

The significance of these wastes may be brought out more clearly by stating the total waste for each city. Table II shows this by both quantity and value. The total daily soap waste for Bloomington is 280 lb., costing $50.23. This means that by taking out 25 p.p.m. more mineral from the water Bloomington could save $50.23 per day, in addition to their already enormous saving from what they used to waste with their former water supply. In a year this saving would amount to 51 tons of soap, or $18,332.

It is impossible to obtain data showing Bloomington's soap consumption before the softening plant was built. Since the former water supply was about 100 p.p.m. harder than the present supply of Chicago Heights, it will be conservative to take the difference in soap consumption of Superior and Chicago Heights as Bloomington's former soap waste over what she now uses. The difference between Superior and Bloomington water is 25 p.p.m. On this basis Bloomington is now saving 1,469 lb. of soap per day, which amounts to $308.

TABLE II — TOTAL WASTE OF SOAP, BASED ON CONSUMPTION IN SUPERIOR, WIS.

City	Waste Per Day		Waste Per Year	
	Lb.	Cost	Tons	Cost
Superior, Wis.	Base	Base	Base	Base
Bloomington, Ill.	280	$50.28	51	$18,332
Champaign-Urbana, Ill.	950	$180.67	173	$66,148
Chicago Heights, Ill.	1,060	$224.43	193	$81,918

TABLE I — DOMESTIC CONSUMPTION OF SOAP AND AMOUNT WASTED DUE TO USE OF HARD WATER

City	Population	Total Hardness of Water, P.P.M.	Annual Per-Capita Soap Consumption, Lb.	Annual Per-Capita Soap Cost	Annual Per-Capita Soap Waste, Lb.	Annual Per-Capita Cost of Soap Waste	Weight of Soap Wasted, Per Cent	Cost of Soap Wasted, Per Cent
Superior, Wis.	36,113	45	27.5	$3.60	Base	Base	Base	Base
Bloomington, Ill.	30,930	70	30.8	$4.20	3.3	$0.60	10.7	14.3
Champaign-Urbana, Ill.	33,408	298	37.9	$5.58	10.4	$1.98	27.4	35.5
Chicago Heights, Ill.	22,321	555	44.9	$7.27	17.3	$3.67	38.6	50.4

For a year this saving totals 268 tons, or $113,500.

Champaign-Urbana, with a water of medium quality, is wasting 950 lb. of soap per day, or 173 tons per year. The value of this wasted soap is $180 per day, or $66,150 per year.

Chicago Heights, having the hardest water of any city under consideration, has the highest per-capita waste. The total waste per day for this city is 1,060 lb. of soap, or $224. In a year this amounts to 193 tons of soap, which costs $81,900.

In the past, various authorities have estimated that in a town of 140,000 inhabitants, using a water of 300 p.p.m. hardness, a ton of soap is wasted per day. These estimates were made before the day of the home water softener and included all soap used within a city. Results of the present study indicate that a city of 40,000 inhabitants is wasting 1,140 lb. of soap per day for domestic purposes alone. This would surely seem to indicate that the early estimate was not far from correct.

◆

Boston-East Boston Vehicle Tunnel Design and Construction—I

Ingenious conveying system carries material from shield face under air pressure to street level on Boston-East Boston vehicle tunnel—Pressed-steel liner plates used for entire length

THE VEHICLE tunnel now being driven under Boston harbor represents a distinct advance in shield tunneling. From a design standpoint, the tunnel is featured by the use of pressed-steel liner plates instead of the usual cast-iron segments. This is by far the most extensive use of pressed-steel lining in tunnels of this size. The approach sections and 300 ft. of the subaqueous section of the Detroit-Windsor tunnel were lined with steel plates (*ENR*, Oct. 17, 1929, p. 600). In the Boston tunnel the plates are reinforced with 45-lb. rails, providing greater stiffness to resist the shield thrust than did the 5-in. I-beams used as stiffeners at Detroit. From a construction standpoint, the tunnel represents a revolutionary change in muck-handling methods in the use of a continuous-belt conveying system from the shield face to trucks at street level. Heretofore, the use of belt conveyors in shield tunneling has been limited to a short section at the shield for loading tramrail cars. The greatest obstacle in applying a complete conveying system to compressed-air tunneling lies in providing means for transfer through the air locks. At Boston this obstacle has been overcome by an automatic twin-lock arrangement, remarkable in its simplicity and operation. Every step of the muck-handling operations marks a new advance in the application of conveying equipment to soft-ground tunneling. The following article describes the steel-plate lining and the removal of muck by conveyors. A subsequent article will tell of the placing of concrete lining, also involving the use of unusual methods in tunnel construction. —EDITOR.

AN INGENIOUS conveying system for the disposal of muck is being used on the subaqueous vehicle tunnel between Boston and East Boston. From the face of the shield, in compressed air under Boston harbor, muck is picked up by conveyors and carried back to the bulkhead, passed automatically through twin air locks, transported to a shaft near the East Boston portal, hoisted up the shaft by a scraper conveyor and dumped into waiting trucks or storage hoppers without being rehandled. Unprecedented speed in soft-ground tunnel driving is being obtained, daily progress at times reaching 32½ ft. Another novel feature in the construction of a tunnel of this size is the use of pressed-steel liner plates. These plates, much lighter than the usual cast-iron segments, are stiffened with 45-lb. railroad rails to take the shield thrust.

The tunnel will be 5,635 ft. long from portal to portal; open-cut inclined approaches at the ends extend the length to 6,150 ft. Cut-and-cover sections, 435 ft. long at the Boston end and 350 ft. long at the East Boston end, reduce the length of actual tunnel to 4,850 ft. A ventilating shaft is provided near each end. A plan and profile are shown in Fig. 1.

Design

The tunnel is a double-lane single tube on straight alignment, with an outside diameter of 31 ft. From the Boston entrance the tunnel dips on a grade of 4.2 per cent to the U. S. pierhead line, reaching a depth of 50 ft. from mean water level to the top of the tube. From the pierhead line to the center of the harbor the grade is reduced to 0.5 per cent, then breaks to a 0.5 per cent upgrade to the East Boston pierhead line. The upgrade from this point to the east portal is 3.4 per cent.

Ample cover was found on most of the subaqueous section. In two places shallow clay blankets were necessary. At the Boston pierhead line, where pier piles were cut through, escaping air, following up alongside the piles, threatened to jet them down and cause excessive settlement of the pier. This condition was remedied by continued grouting, which sealed off the leaks and provided new bearing for the piles subjected to jetting.

Steel liner plates used

Except for the steel lining, the design of the tube is similar to that of the Holland Tunnel in New York and follows closely the land sections of the Detroit-Windsor vehicular tunnel. A 21½-ft. concrete roadway, carried on 10-in. cross-beams, will be paved with granite block. On one side of the roadway is a raised sidewalk; on the other side are banks of electrical conduits and water and drain pipes. Fresh-air ducts are placed under the road slab, and exhaust-air ducts occupy the top segment of the tunnel. A clear height of 13½ ft. is provided between the top of the floor slab and the under side of the exhaust ducts. A minimum thickness of 18-in. reinforced-concrete lining is being placed inside the steel plates. Fig. 3 shows a typical cross-section of the tunnel.

The outside lining is made up of rings

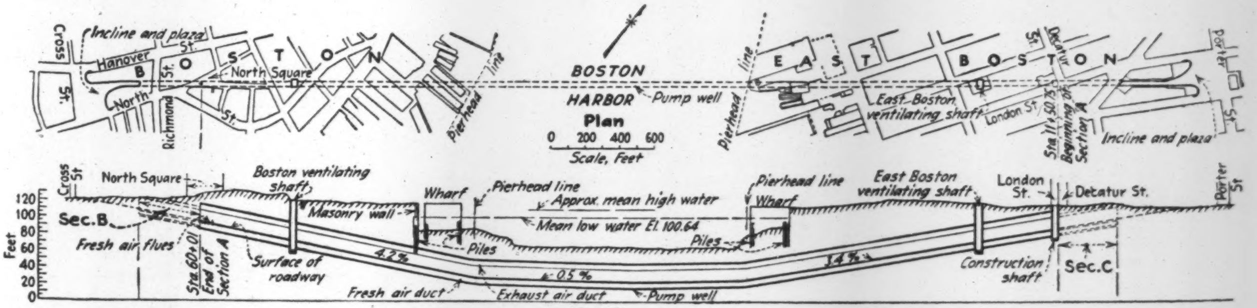

Cross St.
Incline and plaza
Hanover St.
BOSTON
North Square
North St.
Richmond St.
Pierhead line
BOSTON HARBOR
Pump well
Plan
0 200 400 600
Scale, Feet
EAST BOSTON
East Boston ventilating shaft
London St.
Sta.11+50.75 Beginning of Section A
Decatur St.
Porter St.
Incline and plaza
Feet
120
100
80
60
40
20
0
Sec.B
Fresh air flues
Sta.60+01 End of Section A
Surface of roadway
Boston ventilating shaft
Masonry wall
Wharf
Pierhead line
Approx. mean high water
Mean low water El. 100.64
Piles
4.2%
0.5%
3.4%
Fresh air duct
Exhaust air duct
Pump well
Pierhead line
Wharf
East Boston ventilating shaft
London St.
Detatur St.
Porter St
Construction shaft
Sec.C
Profile

Fig. 1—Plan and profile of Boston-East Boston traffic tunnel.

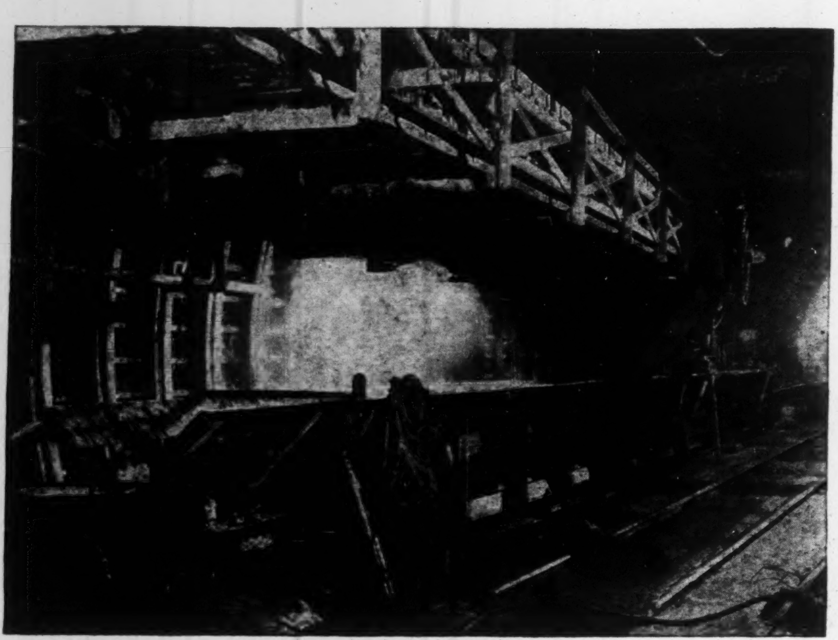


Fig. 2—The plate conveyor from the shield (above) overlaps the first belt of the main conveyor system (below) to permit a considerable advance of the shield without belt adjustment. The plate conveyor is hung from the traveling jumbo.

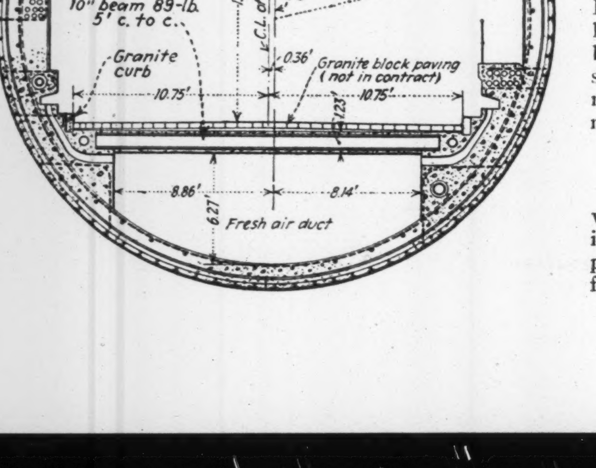
of ten standard steel-plate segments (Fig. 5), 30 in. wide and 8 ft. 9¾ in. long, along the outside arc, and of two key segments, which together equal one standard section in length. The key segments, one shorter than the other to allow staggering the longitudinal joints, have a common joint parallel to an adjacent radial joint (shown in detail of segment *K* in Fig. 5) to permit the narrower section to be slipped into place as the last segment to complete the ring. Each segment consists of a steel pan 8 in. deep, with ⅛-in. bottom plate and bent side flanges and ½-in. end flanges continuously welded to the pan at all joints. The free edges of the side flanges are stiffened by welded curved special angles 4x1x3½x⅜ in. (Sec. C-C and D-D, Fig. 5), with the heavy leg turned outward; these form continuous rings of angles when the plates are erected. Across the pans, parallel with the tunnel line, are 45-lb. rail sections, eight to a standard segment, with the bases welded to the inside face of the pans, as shown in detail by longitudinal sections in Fig. 5. These rail sections form continuous longitudinal stiffeners that take the shield thrust.

Each segment contains a 2-in. pipe tap for the insertion of grout and gravel pipes for filling the annular space left by the tail of the shield outside the lining. The steel segments are fastened together with ¾-in. bolts. Before the plates are erected the contact faces are given a waterproof coating of roofing putty, applied with a trowel. One 30-in. ring of plates weighs 6½ tons, about one-third the weight of the usual cast-iron lining.

Tunnel-driving

The tunnel is being driven by one shield, which started at the East Boston end. A shaft 45 ft. deep was sunk at the junction of the tunnel and the cut-and-cover section, in which the shield was erected. The shield is 31 ft. 7 in. in outside diameter and carries three sliding platforms in the front end, dividing the shield into four horizontal compartments. Thirty 10-in. hydraulic jacks, operating under 6,000 lb. per sq.in. pressure, shove the shield ahead in 30-in. moves. A hydraulic erection arm in the shield places the liner segments.

Fig. 3—Typical cross-section of Boston traffic tunnel.



TUNNEL-DRIVING PROGRESS

Month	Monthly Progress, Ft.	Days Worked	Daily Average, Ft.
August, '31	188	24	7.8
September	387	24	16.1
October	395	27	14.6
November*	323	25	12.9
December	267	25	10.9
January, '32	380	26	14.6
February	545	25	21.8
March†	530	25	21.2
April	460	26	17.7
Average	386.1	25.3	15.4

*First bulkhead placed. †Second bulkhead placed

For 1,050 ft. from the shaft, excavation was possible without the aid of compressed air. At this point a concrete bulkhead was installed, containing a man lock, a material lock, an emergency lock and two automatically operated muck locks (Fig. 9). The air pressure has varied, but the maximum used so far is 25 lb. per sq.in. A second similar bulkhead was installed when the tunnel had progressed 1,505 ft. from the first, and the first was then removed.

In general, the material encountered is a stiff blue clay, with occasional sand pockets and boulders. Air-operated hand spades and power-driven clay knives of the Detroit pattern remove the muck in slabs and chunks. Little breasting at the face of the shield is required.

The permanent ventilation shaft at the east end, located between the shield shaft and the harbor, was completed before the shield reached it. Reinforced-concrete cradles, in which were embedded eight heavy steel rails, were built in the bottom of the two ventilation shafts to carry the shield across the openings. To provide reaction to thrust in driving the shield across the shaft openings, the steel lining was continued through the shafts, with 100-lb. rails substituted for the usual 45-lb. rails in the liner segments. The heavier steel supplied the necessary stiffness in the lining to compensate for the lack of outside support normally supplied by the ground.

The monthly progress in driving the tunnel is shown in the table above. At the start of driving the sandhogs were inexperienced laborers from Boston. No union sandhogs have been employed. Work is being carried on continuously six days a week. The best monthly record of 545 ft. was made in February.

Muck-handling

The belt-conveyor system developed for handling the muck is new in tunnel-driving. The problem was to provide means for carrying the conveyors through the air lock. This was solved by an ingenious automatically controlled twin lock.

Fig. 7 shows a diagrammatic sketch of the conveyor layout. Extending into the bottom compartment of the shield are two 36-in. apron conveyors, 80 ft. long (Fig. 2), riding on a carriage pulled along by the shield. These two conveyors, operating at a speed of 25 ft. per minute, converge at the discharge end over a common hopper, which also rides on the carriage. The hopper dumps onto a main 30-in. belt conveyor leading back to the air locks. This conveyor travels at a speed of 150 ft. per minute. It is lengthened out once a day to keep up with the shield until a section 1,200 ft. long is built up. Then a new section is started. At the shield end the main conveyor extends under the apron conveyor for a maximum distance of 57 ft., to avoid moving the main conveyor ahead with every shove of the shield.

Automatic air locks

On the high-air side of the bulkhead the main conveyor discharges into a hopper with two outlets (one to each of the two automatic locks), controlled by a power-operated flop gate. The automatic lock consists of two 5-ft. cylinders placed side by side and inclined upward 17 deg. from the pressure side of the bulkhead (Fig. 8). Each lock contains a 36-in. belt conveyor, 28 ft. long, operated by a two-speed motor. The operation of the locks, automatic and time-controlled, is as follows:

One lock is loading while the other is discharging. At the start of a loading cycle in one of the cylinders, the lock door at the high-air end is open and that at the low-air end is closed. The gate in the charging hopper is set to dump muck into this lock. The lock belt moves at a speed of 15 ft. per minute while being loaded. At the end of a definite time interval, when the entire length of the belt should be loaded, the hopper gate is switched to discharge into the other lock, the high-air end door is closed, the air pressure within the lock is dropped to normal, the low-air end door is opened, and the belt is speeded up to 22½ ft. per minute for the discharge period, all operations being automatically controlled and timed. By the time this lock is unloaded and the gates arranged for loading, the other lock is ready for discharging. One complete cycle of loading and discharging takes 2¾ min.

On the low-air side of the bulkhead the lock belts discharge into a common hopper feeding another 30-in. main-belt conveyor, traveling at a speed of 150 ft. per minute. This conveyor, now in two 1,200-ft. sections, reaches to the construction shaft. Here the muck is dumped onto a 36-in. scraper conveyor, which, traveling at a rate of 80 ft. per minute, rises on a 60-deg. slope up through the shaft to a bridge over an adjacent street. On the bridge the scraper conveyor passes over four openings, the first being a hopper dumping directly into trucks, the other three being over rectangular storage bins, 5 ft. wide and 45 ft. long, set at right angles to the conveyor. These bins, each with a capacity of 60 tons, have moving-chain plate bottoms, traveling at a speed of 1¼ ft. per minute. Muck is dumped into the storage bins only when trucks are not present. The bins discharge into individual truck hoppers. Under terms of the contract all muck is being hauled to fill in a municipal airport, 1 mile away.

Each element of the conveying system is operated by a 220-volt electric motor. In case of failure or trouble occurring in any unit, the entire system is interlocked so as to stop the equipment between the point of trouble and the shield, preventing piling up of muck but keeping in operation the conveyors on the shaft side of the failure. The capacity of the conveying system is rated at 60 tons per hour, or from 35 to 40 cu.yd. of muck. One shove of the shield produces 72½ cu.yd.

The long 30-in. belt conveyors are equipped with hand take-up wheels for adjusting the belt tension. The main conveyor on the pressure side of the bulkhead is extended as often as necessary with 22½-ft. assembly pieces (45 ft. of belt). A splicing crew can insert a new section and length of belt in less than 15 min. After considerable experiment, bronze rods were found to be best for splice bars in the metal belt

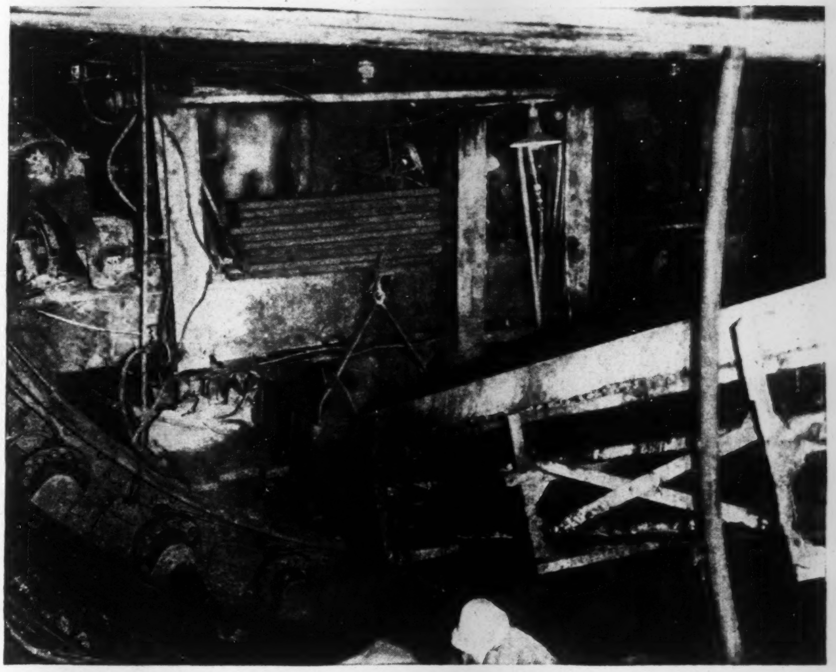
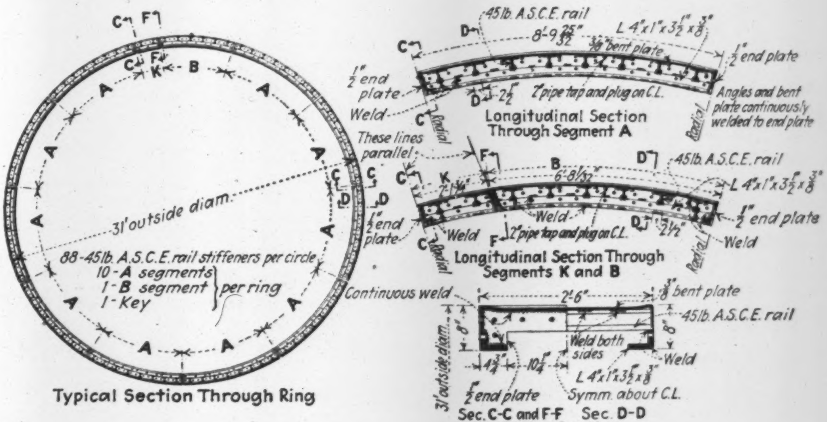


Fig. 4—One of the two plate conveyors leading from bottom pocket of shield. This conveyor is carried by a jumbo pulled along by the shield.


C F
C F
K
B
A
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A
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A
A
A
A
A
A
C
C
D
D
31' outside diam.
88-45 lb. A.S.C.E. rail stiffeners per circle
10-A segments
1-B segment
1-Key
per ring
Typical Section Through Ring
45 lb. A.S.C.E. rail
D
8'-9 25/32"
L 4"x1"x3½"x⅜"
C
⅜" bent plate
½" end plate
½" end plate
D
2½"
2" pipe tap and plug on C.L.
Angles and bent plate continuously welded to end plate
Weld
C
Radial
Longitudinal Section Through Segment A
Radial
These lines parallel
F
B
D
45 lb. A.S.C.E. rail
C
K
2'-1¼"
6'-8 1/32"
L 4"x1"x3½"x⅜"
Weld
½" end plate
½" end plate
D
2½"
Weld
Weld
F
2" pipe tap and plug on C.L.
C
Radial
Longitudinal Section Through Segments K and B
Radial
Continuous weld
2'-6"
⅜" bent plate
45 lb. A.S.C.E. rail
8"
8"
31' outside diam.
Weld both sides
Weld
4¾"
10¼"
L 4"x1"x3½"x⅜"
½" end plate
Symm. about C.L.
Sec. C-C and F-F
Sec. D-D
Cross Section

Fig. 5—Structural details of steel-plate liner segments. All joints and connections within each segment are welded.

connections. When ten 45-ft. belt sections have been installed, they are replaced by a single 450-ft. length.

Bulkhead construction

The bulkhead construction was unusual for the means taken not to interrupt tunnel-driving. Commonly all operations are stopped. The change from the first to the second bulkhead in this tunnel was accomplished with only a brief shutdown. Forms for the concrete ring of the second bulkhead were begun March 10, and the first concrete was poured March 12. On the next day (Sunday) the man and emergency locks were placed. On the next Sunday (March 20) the material lock and stub ends (high-air side) of the muck locks were set, the belt conveyor was cut, and a new head was erected on the high-air side of the bulkhead. At this time a spare muck-lock conveyor was temporarily placed through one of the muck locks to serve as a transfer through the bulkhead. During the next five days the remainder of the concrete in the barrier was placed. At 8 a.m. on March 26 the driving was stopped to permit shifting of the lock equipment on the pressure side of bulkhead No. 1 to a similar position in the new bulkhead. By 8 p.m. the same day this work was completed and 20 lb. of air was forced into the tunnel on the high-air side of bulkhead No. 2, a pressure 2 lb. higher than that between the two bulkheads. Air was then slowly released from the chamber separating the two barriers, a time of 2 hours and 40 min. being allowed. The remaining equipment on the free-air side of bulkhead No. 1 was then transferred to the new bulkhead, and the latter was ready for operation by 2 o'clock on the afternoon of March 29.

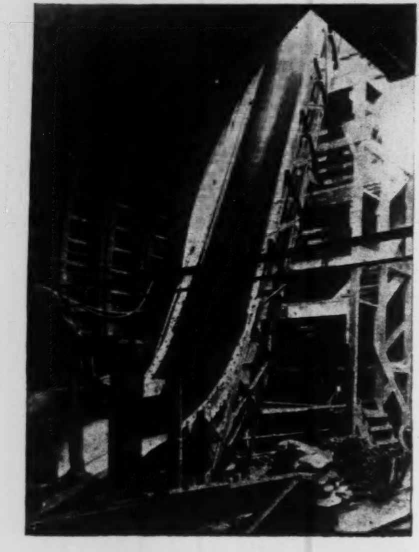

Fig. 6—Scraper conveyor for raising muck out of tunnel at construction shaft. Photo, taken while conveyor was in motion, fails to show individual scraper plates.

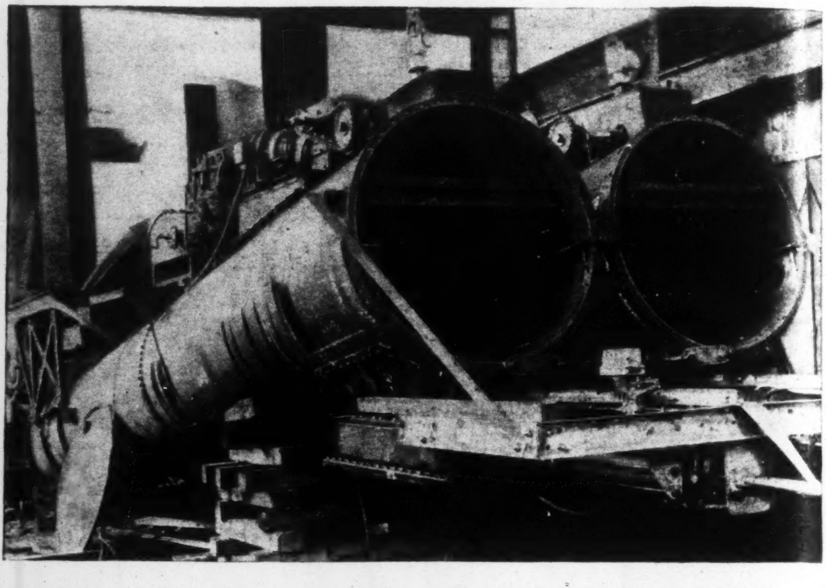

Fig. 8—Automatic twin-lock arrangement for trapping muck through bulkhead, shown set up in shop before assembling in tunnel. Low-air end of locks is at right. Steel end-plate of locks are not in place. Individual motor drive for belts within locks can be seen on top of cylinders.

Lining erection and grouting

The main-belt conveyors are placed along the north side of the tunnel, leaving room for two narrow-gage tracks, all being carried on a solid timber platform posted to the invert. Lining plates are lowered down the shield shaft by a crane and are placed in temporary storage in the tunnel on narrow-gage cars handled by storage-battery dinkies. While in temporary storage, the liner plates are given a coating of roofers' putty along one of the circumferential and both cross-joint contact faces. No putty is placed on the shield side of the circumferential faces, to prevent gumming up the jack shoes. The use of the roofers' putty without additional calking is producing a remarkably tight and dry tunnel.

All railroading of the liner plates, both from the shaft to temporary storage and then to the shield, is done during one working shift per day. At the shield the plates are handled from cars to the erector by a monorail hoist hanging from the same traveler or jumbo that carries the two apron conveyors. This jumbo travels on brackets clamped to the lining. The hoist drops the liner segments in the bottom of the shield within reach of the hydraulic erector arm. First, the three bottom plates are set and bolted to the adjacent ring of lining already in place. Then the plates

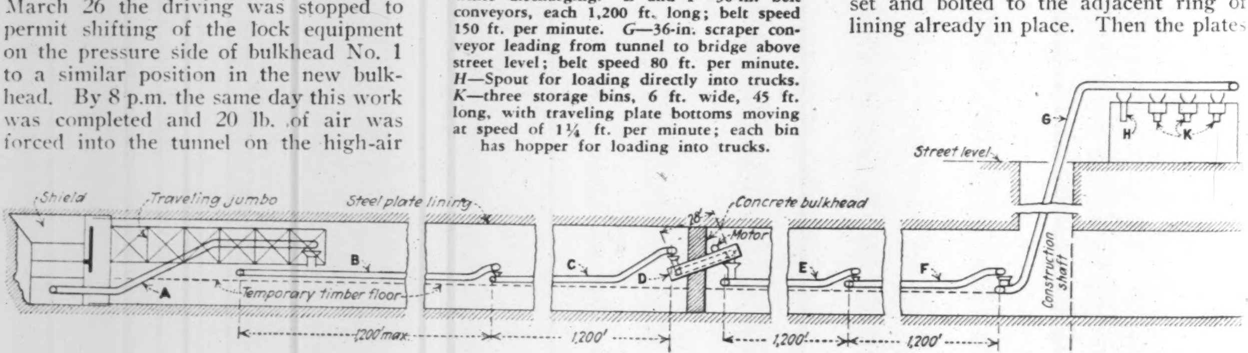

Fig. 7—Diagrammatic sketch of muck-conveying arrangement, showing various elements in conveyor system that transfers muck from shield face to trucks at street level without rehandling. *A*—Two 30-in. apron or plate conveyors supported by and traveling with jumbo; belt speed 25 ft. per minute. *B*—One 30-in. belt conveyor; extended once daily; maximum length 1,200 ft.; belt speed 150 ft. per minute. *C*—30-in. belt conveyor, 1,200 ft. long; belt speed 150 ft. per minute. *D*—two 5-ft. automatic muck locks, each containing 36-in. belt conveyor 28 ft. long; belt speed 15 ft. per minute while loading, 22½ ft. while discharging. *E* and *F*—30-in. belt conveyors, each 1,200 ft. long; belt speed 150 ft. per minute. *G*—36-in. scraper conveyor leading from tunnel to bridge above street level; belt speed 80 ft. per minute. *H*—Spout for loading directly into trucks. *K*—three storage bins, 6 ft. wide, 45 ft. long, with traveling plate bottoms moving at speed of 1¼ ft. per minute; each bin has hopper for loading into trucks.

are set alternately on each side until the ring is complete, the key segment being the last one set. During the erection of a ring the nuts on the connection bolts are screwed down by air-operated wrenches. After the ring is complete the nuts are given a final tightening with long-handled ratchet wrenches. One ring of lining requires 404 ¾-in. bolts. An average of 30 min. is required for the erection of a ring, although rings have been completed in 23 min.

During a shield shove a mixture of sand and pea gravel is blown by the O'Rourke method through the tap holes in the lining into the annular space left by the tail of the shield. Gravel shooting is done from three gravel pans suspended from the traveling jumbo. An apron conveyor carries the sand and gravel from the track level to the top of the jumbo, where the materials are dumped into the gravel pans. The actual space left by the tail of the shield amounts to 2.9 cu.yd. per ring. Into this space is forced 3.5 cu.yd. of sand and gravel, assuring complete filling. Cement grout is later forced behind the lining several rings back of the shield to consolidate the sand and gravel. The intention of this is to produce a concrete ring outside of the steel lining. The amount of grout used averages 1.1 cu.yd. per ring.

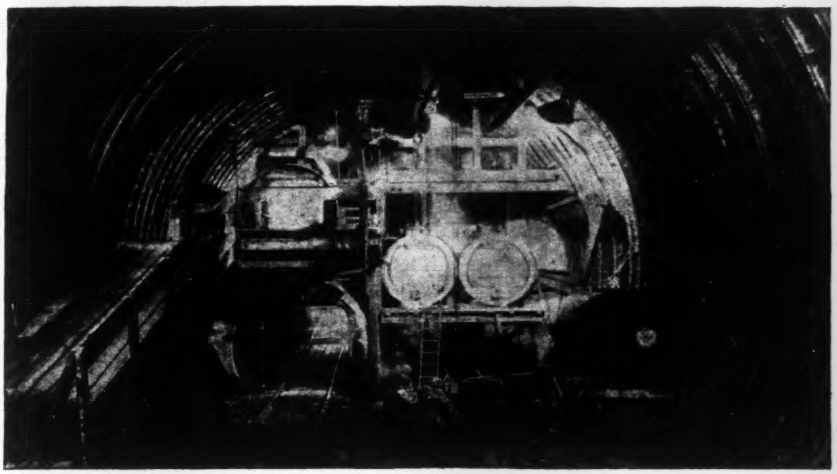

Fig. 9—View of bulkhead No. 1 from free-air side just before tunnel was put under air. Tracks are going through material lock. Man lock is located at upper left, and emergency lock is in top center. The ends of the two automatic muck locks can be seen to right of and slightly above material lock. Belt conveyor leading to shaft is shown at extreme right.

Power plant

A central compressor plant supplies all the air required, as well as the hydraulic pressure for shoving the shield. Three electric-drive compound compressors, each with a capacity of 4,000 cu.ft. of air per minute, furnish the low-pressure air. High-pressure air comes from two 1,300-cu.ft. electric-drive compound compressors. A hydraulic accumulator regulates the hydraulic pressure for the shield jacks. Operating under an air pressure of 217 lb. per sq.in., the accumulator supplies 6,000 lb. per sq.in. hydraulic pressure. Two pumps at the accumulator replace the water lost by the operation of the jacks. One 8-in. high-air line, two 10-in. low-air lines and two 1½-in. hydraulic pipe lines lead from the compressor plant into the tunnel.

Approach sections

The 350-ft. cut-and-cover approach section of the East Boston side is being built by the tunnel contractor. Extensive underpinning was required to support a group of ancient buildings under which the subway passes. A systematic scheme of underpinning was adopted. Pits 4 ft. square were sunk to 4 ft. below subgrade at 10-ft. intervals outside the trench line on both sides of the cut. Concrete bases 2 ft. high were poured in each pit. Upon these bases were set 16-in. beam sections with flanges parallel to the center line of the subway. Longitudinal header beams were placed on top of these columns. Heavy transverse beams, resting on the longitudinal beams, provide direct support for underpinning. Outside of building lines, where underpinning loads were light, the vertical beams were driven with a steam hammer.

Sheeting for the cut consists of 6x8-in. tongue-and-grooved hard pine set horizontally against the inside flanges of the vertical beams. This sheeting remains in place, and fabric waterproofing for the subway walls is placed directly against it.

The contractor took advantage of the tunnel muck-conveying equipment to remove excavation from the cut. A gas-driven ¾-yd. tunnel shovel was lowered down the shield shaft to begin excavation from the tunnel end of the cut. This shovel loads onto a belt conveyor leading to the hopper at the bottom of the scraper conveyor rising out of the shaft. Excavated material is dropped onto slope boards by the shovel and is pushed onto the belt by hand. The belt is extended as often as necessary.

The Boston cut-and-cover section, 435 ft. long, passes under buildings for about half its length. This required extensive underpinning of an old five-story brick building and several smaller structures, some of which date back to 1781. The material encountered consists mostly of a fairly dry hard clay filled with stones. The construction procedure is to drive side-wall trenches, build the walls and roof and then remove the central earth core.

Contractors and personnel

The tunnel was designed and is being built by the Boston Transit Commission and will be paid for by toll operation. Thomas F. Sullivan is chairman of the commission. Ernest R. Springer is chief engineer, W. W. Davis is assistant chief engineer and L. B. Howe is designing engineer. P. H. Mosher is resident engineer on the tunnel.

Silas Mason, Inc., New York, has the contract for the tunnel proper and the East Boston approach. H. L. Myer, vice-president and general manager, is in charge. Francis Donaldson, chief engineer of the Mason & Hanger and Silas Mason companies, served as consultant to the contractor. H. M. Buck is engineer for the contractor. Mr. Myer conceived the idea of using belt conveyors for handling the tunnel muck when it was realized that the usual railroad equipment would be inadequate to take care of the heavy yardage resulting from the contemplated driving progress. Details of the conveying system were worked out by the field organization of the Mason company in conjunction with L. F. Parker, mechanical engineer, and the Jeffrey Manufacturing Co., Columbus, Ohio, makers of the conveying equipment. The contractor has applied for a patent on the muck-lock design. The liner plates were fabricated by the Commercial Shearing and Stamping Co., Youngstown, Ohio. The C&R Construction Co., Boston, has the contract for the Boston approach. Alex Martinello is superintendent in charge.

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California Grade-Crossing Rules

The California railroad commission has adopted a new general order dealing with regulations governing the improvement of existing grade-crossings, to avoid the delays that occur under the present procedure. The order provides that where the public authorities having jurisdiction over the highway involved and the railroad corporation are in agreement as to the plan of improving an existing crossing, as well as the apportionment of its cost, the parties are authorized to proceed with such work, provided the commission is given not less than twenty days' notice in advance of the start of the work.

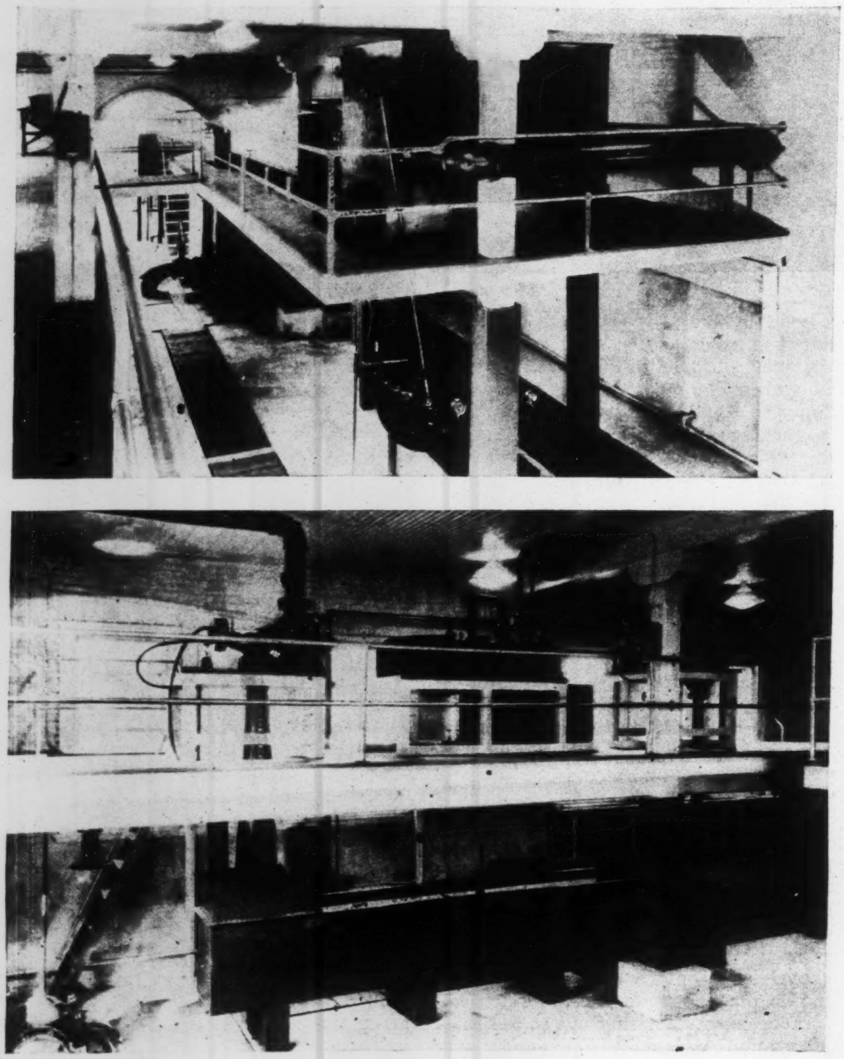
New Hydraulic Laboratory at Tulane University

Part of old engineering building converted into laboratory for study of fundamental hydraulics

During the past year there was put into service in the college of engineering at The Tulane University of Louisiana, New Orleans, a new hydraulic laboratory for use in the teaching of fundamental hydraulics and for the course in experimental engineering. Floor space of 30x60 ft. and 38x12½ ft., with a ceiling height of 16½ ft., was provided in the old engineering building. The high ceiling made it possible to gain floor space by the use of a mezzanine.

A system of waterways in the floor, in general about 3x3 ft. in section and holding 13,000 gal., is used for supply purposes. By means of removable dams these channels may be used for current meter work as well as to return water to the suction pump. There are three main pumps, one 12 in., of 3,600-g.p.m. capacity and 16-ft. head; one 5 in., 900 g.p.m., 50-ft. head; and one 2 in., 225 g.p.m, 115-ft. head.

Two 24-in. weirs are available, discharge being weighed in a 20,000-lb. weighing tank and the head controlled by a skimmer weir. Other equipment includes various types of meters, orifices and turbines, a cradle dynamometer, a glass-sided weir and a Parshall flume.



Use of a mezzanine floor in the Tulane hydraulic laboratory makes all the equipment accessible and provides a compact layout.

Much of the equipment was provided by an alumnus of the school, W. M. White, chief engineer and manager of the hydraulic department of the Allis-Chalmers Manufacturing Co. Prof. W. B. Gregory, of Tulane, planned the laboratory and supervised its construction.

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Computing Employment Units in Road Construction

Reporting on labor in road construction to *American Highways*, the official journal of the Association of State Highway Officials, Grover C. Dillman, state highway commissioner of Michigan, gives cost and employment units for three principal classes of road work. These classes and the average cost per mile for the years 1930 and 1931 are as follows:

36-ft. grading, including drainage structures	$10,000
20-ft. two-course gravel, 36-ft. grade, including drainage structures	13,000
20-ft. concrete pavement, standard section, including drainage structures and 36-ft. grade.....	27,500

For $1,000,000, 100 miles can be graded, or 77 miles of gravel road or 36 miles of concrete pavement can be constructed. From the studies made of a number of projects it has been computed that to construct 1 mile of grading and drainage structures takes 3.5 weeks; to build 1 mile of gravel road complete takes 5.7 weeks; and 1 mile of concrete pavement complete takes 5.8 weeks.

To construct 1 mile of grading takes an average of 53 men 3.5 weeks; to build 1 mile of gravel road complete takes 49 men 5.7 weeks; and to construct 1 mile of concrete pavement, it takes 69 men 5.8 weeks. As near as can be determined 37 per cent of the cost of grading and drainage goes directly into labor; in gravel construction, 43 per cent; and in concrete pavement, 29 per cent.

From the information and other data analyzed it is estimated that to spend one million dollars on grading and drainage it takes 5,286 men, employed five days per week, 3.5 weeks. On gravel-road construction, which of course would include the grading and drainage structures, it takes 3,772 men 5.7 weeks. On concrete-pavement construction, including grading and drainage structures, it takes 2,500 men 5.8 weeks.

The above deductions are made on the basis of five days each week, which is reasonable considering Sundays, holidays and lost time deductions. Computations are made on the basis of $4 per day, which would include common labor at a minimum wage scale of 35c. per hour, and skilled-labor supervision, which of course takes a higher rate; an average of 40c. per hour is believed to be conservative.

Material Specifications and Research at A.S.T.M. Meeting

MUCH new work in developing specifications was reported at the American Society for Testing Materials meeting in Atlantic City last week, despite the unfavorable influence of economic conditions, which were reflected in a sharp decrease in attendance as compared with last year. These conditions have further affected the society through a decline in membership and through their influence in slowing up or bringing to a temporary halt numerous items of investigative work by committees dealing with specifications or research. However, important additions to current knowledge of materials and test methods were made by a large number of technical papers, the program as a whole being not noticeably inferior to those of previous years.

Research was stressed as the chief objective of the society in a notable address by the retiring president, F. O. Clements, director of research of the General Motors Corp., Detroit. Dr. Clements asserted that the objective of the American Society for Testing Materials must be a continual search for new knowledge and pointed out that the society's extensive standardization work involves the danger of leading to mental standardization. "The antidote and remedy for such a danger," he said, "is a continual search for new knowledge, or research in the field of materials."

Prof. Hugh S. Taylor, of Princeton University, delivered the annual Edgar Marburg lecture, his title being "Control of Processes of Deterioration."

The Charles B. Dudley medal for the best paper presented before the society during the past year was awarded to C. D. Menzel, Portland Cement Association, Chicago, for a paper on fire tests of walls of concrete masonry units.

Cloyd M. Chapman, consulting engineer, New York, was elected president of the society for the coming year.

A noteworthy innovation on the program was the inclusion of two sessions devoted to the subject of good data. For several years a group of members interested in the use of modern statistical theory have been working as a committee but this year's meeting represents the first public discussion of the question.

By approximate count the meeting approved some 40 new standards and 75 revisions of standards. They bring the total number of the society's specifications up to about 660.

A noteworthy change in procedure, tending to speed up the adoption of specifications, became operative during the past year through the action of the new committee on standards, which is empowered to promulgate new tentative standards without their being submitted to a meeting of the society. Through this committee fifteen new tentative standards were issued during the year, in addition to four revisions of previously existing standards. The new specifications included a group of five covering welded-steel pipe, lock-bar pipe, and riveted-steel and wrought-iron pipe, a specification for masonry cement, and a bend test for ductility of metal.

Important work on specifications

TWO important recommendations of the steel committee were adopted: a restriction of bessemer steel to acid bessemer, and new specifications for structural medium steel and for rivets. The former change affects fifteen specifications of the society and is stated to be due to the fact that basic bessemer is not manufactured in this country, and that in any special case the purchaser may specify that basic bessemer will be acceptable.

Medium Structural Steel—The medium steel specification was drafted because of demands for higher-strength steel for heavy construction. The principal features of the new specification are:

Material: openhearth or electric furnace.

Composition: P, 0.06 acid, 0.04 basic; S, 0.05; Cu. min., 0.20 when specified; 25 per cent excess of phosphorus and sulphur permissible in check tests on finished material.

Strength: 60-72,000 ultimate; yield point one-half tensile, with minimum of 33,000; minimum elongation in 8 in., 1,500,000/tensile strength, or 21 to 25 per cent; in 2 in., 22 per cent.

Annealed eyebars: 60,000 minimum tensile, 33,000 yield point, 12 per cent elongation in 18 ft.; where no full-size tests are made, unannealed eyebar flats may range from 67,000 to 82,000 tensile, with minimum yield point 36,000 and elongation 20 per cent in 2 in.

All material is to stand a cold bend test to 180 deg. around a pin of diameter 1 to $4\frac{1}{2}$ times the thickness, depending on the kind and thickness of the material.

Building-steel specifications were changed by reducing the maximum punching thickness for bessemer steel from $\frac{3}{4}$ in. to $\frac{7}{16}$ in.

Rivets and Reinforcing Bars—A specification for structural rivet steel also was adopted as tentative. Such material is to have a tensile strength of 52-62,000 lb., yield point 28,000 or one-half the tensile strength, elongation in 8 in., 1,500,000/tensile strength, and cold bend 180 deg. flat on itself. Phosphorus limits are 0.06 acid and 0.04 basic, and sulphur 0.045.

Reinforcing-bar specifications were modified tentatively by eliminating the clause that permitted machining test specimens taken from deformed bars and by defining in some detail the bend-test procedure. Further, with respect to rail-steel reinforcement bars, a clause was added to exclude specifically the manufacture of such bars from anything other than standard-section T-rail.

Electric-fusion-welded steel pipe was divided by suitable changes in the specifications into two classes, for pipe under 30 in. in diameter and for pipe 30 in. and more.

Wrought Iron — On recommendation of the wrought iron committee, a specification for riveted steel and wrought-iron pipe promulgated during the past year was changed by requiring that rivets in wrought-iron pipe shall be of wrought iron. Such rivets for the present are to be of staybolt-grade bars.

Cast Iron—Preparation of a tentative specification for cast-iron culvert pipe was the principal work of the cast iron committee. The new specification provides for three grades—standard, heavy and extra heavy; tested for diametral crushing by the three-point bearing method, the strength is to be, in pounds per foot of laying length, respectively 2,000, 3,000, and 4,000 times the diameter in feet.

A new tentative specification for gray iron castings was also presented, which grades the quality by tensile strength in seven classes, with minimum tensile strength ranging from 20,000 to 60,000 lb. per sq.in.

Malleable Iron—A specification revising the two-year-old specification for malleable-iron castings was presented, to provide for a grade of higher strength than heretofore recognized. The new grade is required to have a minimum tensil strength of 53,000 and a yield point of 35,000, with 18 per cent elongation in 2 in.

Cement—The cement committee, as a result of the activities of the cement reference laboratory, whose inspectors have found that changes in tolerances in the dimensions of some testing equipment would be advisable and that the wording of the old specifications is ambiguous, presented a revision of the specification of standard methods of testing cement. A supplement to this specification, known as the manual of cement testing, was also revised so as to be more explicit and more detailed. Also, tentative specification and tests for compressive strength of portland cement mortars, first issued in 1916, was withdrawn, inasmuch as it has been found that the small-cylinder test specimens are too difficult to make. Studies are being made upon a cube as a test specimen, and the use of plastic mortar.

Protracted discussion occurred in committee on advancing the high-early-strength cement specification to standard but no action was proposed to the meeting.

Road Materials—In the report of the committee on road and paving materials principal interest centered on discussion of the adoption of standard definitions for bitumen, asphalt, flux, tar and pitch. The contention of those opposing the definitions was that materials now on the market, notably pressure still pitches and other products obtained from gasoline cracking, are being sold as asphalt under the existing definition and that they believe the definition should be so changed as to advise the user of this fact. K. G. McKenzie, Texas Co., New York, speaking for the committee that had voted in favor of the definitions, contended that the use of a material should not depend upon its source or even upon the intent of the manufacturer producing it, but solely upon its properties and qualities. The definitions were adopted as standard.

Timber Preservatives—As an aid in sampling and analyzing timber preservatives, volume and specific-gravity correction tables for creosote, creosote coal-tar solution and coal tar have been prepared by the U. S. Bureau of Standards, and were adopted as a tentative standard of the society.

Concrete — Specifications covering ready-mixed concrete, involving the materials themselves, proportioning, mixing, delivery, inspection, mixing, testing and acceptance of ready-mixed concrete, are still under consideration and study in committee C-1, preparatory to recommending them as a tentative standard.

Fire Tests of Timber—The committee on fire tests announced the formation of a new subcommittee on fire tests of scaffolding.

Investigations—current and new

Corrosion of Iron and Steel—There has been much field work in observing corrosion and its progress during the last several years, but no results of significance were reported at the meeting. Air-exposure tests of iron and steel plates at Annapolis are continuing, as well as total-immersion tests that have been in progress for five years at several locations. In the latter a report of conclusions awaits the failure of the 16-gage sheets, most of which are still in good condition, while practically all the 22-gage sheets are recorded as having failed. The failures of the 22-gage sheets show no significant differences in average length of life between copper-bearing and non-copper-bearing sheets, but large differences between sheets of different origin (iron, openhearth steel, bessemer steel). The 16-gage sheets have so far shown more failures in the non-copper-bearing than in the copper-bearing grade.

Corrosion of Galvanized Sheets—In the six-year exposure tests of galvanized sheets the several points of exposure (Altoona, Brunot Island, Sandy Hook, State College, Pa., Key West) have shown extreme differences in rate of deterioration. At Altoona and Brunot Island (Pittsburgh) all sheets with 2.50-oz. coatings have failed, after average life of 4.37 and 5.18 years, respectively, the lighter coating failing earlier. At Sandy Hook most of the 0.75-oz. and one of the 1.25-oz. coatings have failed after 5½ years, but none of the heavier coatings (1.50- to 2.50-oz.). At Key West and State College no sheets have failed. The committee states, however, that at any one location the durability of the coating is substantially proportional to the weight of the coating. Comparable exposure tests of black sheets in the same locations produced quite different results, and it is concluded that "the relative resistance to corrosion of iron and zinc varies at different locations."

Exposures of hardware, structural shapes, etc., at the same locations show corrosion in all cases except for the hot-dip galvanized and hot-dip aluminum specimens, which are reported to show practically no failures so far.

Testing Zinc Coatings—Because of severe criticism of the Preece or copper-sulphate dip test for zinc coatings a study of some of the factors involved in this test, almost universally used in purchase specifications for wire and some other products, was made by H. H. Walker and E. C. Groesbeck of the U. S. Bureau of Standards and reported by H. S. Rawdon. In the test the galvanized material is dipped in the copper-sulphate bath for periods of one minute each until bright adherent copper is obtained on the bare metal. Formation of this copper coating is taken as the end point. Difficulties with the test due to formation of false end points may be overcome by various expedients, but the test is being recognized as indicating only the weakest point in the coating, not thickness or probable life.

Brittleness in Galvanized Structural Steel—As the result of an investigation of embrittlement of hot galvanized structural steel, conducted at Battelle Institute, Columbus, a lengthy account of the findings of the investigation was presented by Samuel Epstein, in a paper entitled "Embrittlement of Hot Galvanized Structural Steel." Further, the committee on corrosion of iron and steel prepared guide rules against embrittlement, based on the Battelle investigation. Major points of this guide are as follows:

> Embrittlement occurs at points of cold working and in specimens with stress concentration, as at notches, sharp bends and the like. The use of openhearth steel (bridge grade or equivalent) and annealing of heavy shapes after bending, or reaming of heavy shapes after punching, (brittleness at punched holes seldom extends more than 0.05 in. deep), will av injurious embrittlement.
>
> Pickling has some effect in reduci ductility, but its major effect is due hydrogen absorption; aging in servi or heating to 300 deg. F. brings abo complete recovery from the effect hydrogen. The effect of galvanizing due to heating, and only in minor degr to penetration of zinc. Brittleness i creases at low temperature, dependin on the kind of steel in question. Som kinds lose ductility rapidly below roo temperature. "Only openhearth ste should be used for galvanizing if an cold-working without subsequent annealing or stress-relieving is to precede galvanizing." For use in cold climate galvanized structural steel should be drilled
>
> A proposed test for embrittlement o galvanized structural-steel angles consists in measuring the elongation on a 2-in. gage length at the bottom edge of an angle, directly under a punched hole, the angle being broken in bending on a gage length of 14 to 30 in. In such a test to failure the elongation should not be less than 5 per cent; a less elongation would indicate embrittlement.

The embrittlement of malleable castings due to galvanizing is being studied independently by the committee on malleable-iron castings.

Fatigue of metal

Endurance of Zinc-Coated Steel—In a study of the effect of zinc coatings on the endurance properties of steel, determined by fatigue tests, reported by W. H. Swanger and R. D. France, Bureau of Standards, it was found that hot-dip galvanized coatings reduced the endurance limit from that of polished uncoated materials by as much as 42.5 per cent. Quenched and tempered steels were affected more adversely than annealed steels.

Corrosion Fatigue—The report of the research committee on fatigue of metals, (H. F. Moore, University of Illinois, Urbana, chairman) contained two noteworthy articles on present-day knowledge of fatigue phenomena in metals, one on corrosion fatigue and the other on limitations of fatigue test results. It is rather universally agreed that corrosion fatigue consists in the mechanical breaking down by repeated stress of the protective oxide film formed on nearly all metals and consequent progressive spread of corrosion pits, followed by formation of spreading fatigue cracks. The small number of repetitions of stress in structures such as bridges and buildings make fatigue failures rare if indeed not impossible in this field. The term "fatigue of metal" should be used only in reference to actual failures by a spreading crack. The committee reported that no reliable accelerated test for fatigue has yet been developed.

Fatigue Under Repeated Compression—A paper by H. R. Thomas and J. G. Lowther of the University of Illinois reported some tests on T-shaped specimens in which the stem was subjected to repeated compressive stress while the maximum tensile stress in the flange was lower than the compressive stress in the stem. In structural-grade steel, fatigue cracks were found to develop in the stem, believed to be caused by a high residual tensile stress on release of load, producing a reversal of stress from a low tensile stress to a compressive stress equal to the yield point of the material. In rail steel and duralumin cracks did not appear in the stem, probably because these metals do not have sharply defined yield points and therefore are subjected to very low residual stresses on unloading.

New knowledge of materials

Welding Cast and Rolled Steel—Welding may be used to advantage in the production of many intricate machine parts by combining rolled steel parts with steel castings. Various facts on this subject were presented by T. S. Quinn, Lebanon Steel Foundry, Lebanon, Pa., who showed that excellent strength results are obtainable in modern welding, using rods of proper composition and protection.

Symposium on Steel Castings—Ten papers on steel castings were brought together in a symposium occupying two sessions. They included a survey of the industry by W. C. Hamilton, American Steel Foundries, and a statistical summary by G. P. Rogers, Steel Founders Society of America, New York; notes on design by F. A. Lorenz, Jr., American Steel Foundries; a discussion of divergent purchase requirements by R. A. Bull, Electric Steel Founders Research Group, Chicago; a presentation of data on physical properties by C. H. Lorig and C. E. Williams, Battelle Memorial Institute, Columbus, Ohio; discussion of heat-treatment practices by A. W. Lorenz, Bucyrus-Erie Co., Milwaukee; advocacy of forming intricate machine parts by welding cast and rolled steel; and papers on alloy-steel castings by Fred Grotts, Continental Roll & Steel Foundry Co., Jerome Strauss, Vanadium Corp. of America, and J. H. Hall, Taylor-Wharton Iron & Steel Co.

According to Hamilton and Rogers, steel castings have been made in the United States since 1867, increasing eight-fold in tonnage between 1900 and 1929 (216,000 and 1,773,000 net tons). More than 10 per cent of present production is alloy steel, and heat treatment is common. Tensile strengths from 50,000 to 200,000 lb. per sq.in. are available. Successful design of steel castings requires extensive change from cast-iron practice, according to F. A. Lorenz, Jr., because the metal is cast at higher temperature, is subject to quick chilling of the skin, has large shrinkage (up to $\frac{3}{16}$ in. per foot) and therefore requires careful feeding, because equal rates of cooling must be assured.

Mr. Bull showed that there is a tendency to specify too many factors, as composition, strength of test coupon and strength of casting. A narrow limitation of carbon range is especially undesirable, and low limits on silicon and manganese are objectionable. Data on a large range of alloy steels were brought together by Mr. Grotts, exhibiting the high physical test properties obtainable. Mr. Hall reviewed the possibilities of high-manganese steel castings (Hadfield or austenitic steel), emphasizing its exceptional toughness, hardness and wear resistance. The composition range of the material was quoted as C 1 to 1.40, Si 0.30 to 1.0, Mn 10 to 14, S 0.04 max., and P 0.10 per cent max. Because of the development of nickel-manganese welding rod, such castings can now be welded easily and dependably; the ready repair of cracked parts thus made possible promises to extend their economical range of use.

Baked-Enamel Pipe Coatings—Several examples of long and successful service for baked-enamel coated water pipes were recounted in a paper by A. H. Sabin, National Lead Co., New York. A 60-in.-diameter steel line 10 miles long, made of $\frac{1}{2}$-in. plates and put in service in Pittsburgh in 1895, is still in good condition except for a portion in cinder fill that had to be inclosed in concrete. The coating is a varnish enamel baked at 400 deg. F. for two hours. It is stated it was not injured by the driving of rivets. The enamel was made of gilsonite with 50 to 55 per cent linseed oil, and the coating was from 0.002 to 0.005 in. thick. Similar coated water pipe was installed at about the same time in Cambridge, Mass., and Rochester, N. Y. With the exception of electrolysis troubles, since eliminated, the Cambridge pipe has given excellent service. At Rochester electrolytic action has caused considerable damage. Mr. Sabin attributed this to the use of an asphaltum inferior to gilsonite and to a less efficient method of applying the coating than was used at Pittsburgh.

Hot Cement—A report covering a study of all known tests on the effects of the use of hot cement in making concrete confirmed the conclusions, given in *E.N.R.*, Feb. 18, 1932, p. 244, namely that the temperature of freshly mixed concrete rather than the temperatures of the separate ingredients appears to be the factor that influences the properties of the concrete, and that the temperature of the cement appears to be a minor factor because of the small quantities used and its low specific heat.

Concrete-Mix Design — Using the cement-water-ratio-by-weight concept that he had previously proposed (*ENR*, Nov. 5, 1931), Inge Lyse, Lehigh University, Bethlehem, Pa., drew some interesting conclusions from a series of concrete tests made with five different brands of cement and nine different concrete aggregates, in all of which the water content per unit of fresh concrete remained constant. The results indicated to the author that concrete mixes having a given type and gradation of aggregates, a given brand of cement and a constant water content per cubic yard of concrete had nearly the same consistency regardless of richness of mix, that the brand of cement used had slight effect upon the consistency and that for a given consistency the type and gradation of fine and coarse aggregates varied the water requirements considerably. The strength of the concrete increased proportionately with the increase in the cement-water ratio for any brand of cement, leading to the conclusion that above a minimum number of cement particles necessary to give workability and binding strength to the concrete the strength of the concrete increases in direct proportion to the increase in number of cement particles in a unit of water. The importance of the tests rests in the conclusion that in designing concrete mixes of equal consistency (which is one of the principal field requirements) the water content per cubic yard of concrete and the type and gradation of aggregate should be maintained the same, and the change in richness of the mix should be accomplished by substituting 0.85 lb. of aggregate for each pound decrease in cement content or vice versa. The constant 0.85 is the ratio of the specific gravities of the aggregate and the cement. Justification for this constant follows from the fact that the amount of solid matter in a cubic yard of concrete is constant, since the water content is constant. Thus to increase the richness of the mix and keep the consistency constant, the absolute volume of the increased cement content must be equal to the absolute volume of the decreased aggregate content.

Volume Changes of Concrete—An investigation of the volume changes of an early-strength concrete as compared with ordinary portland cement concrete was reported in a paper by E. R. Dawley (Kansas State Agricultural College, Manhattan, Kansas). The coefficient of thermal expansion was essentially the same for mixes of the same proportions, using either cement.

The coefficient of moisture expansion (the unit change in length for 1 per cent of saturation, which appears to vary from 0.0000015 to 0.0000032 in. per inch for ordinary concrete mixtures) increased with increased quantity of either of the cements. For the same proportions of mix the cofficients for the early-strength concrete were from 20 to 65 per cent greater than for ordinary concrete. However, the effect of aggregates was greater and the author concludes that cements therefore should be studied when combined with them in concrete.

Test methods and equipment

Standard Test Methods—An extensive series of studies is in progress under the committee on methods of testing. A revision of the specification for tension-test methods of metals is completed and will probably be presented to the standards committee for adoption during the year. In the field of compression testing, the dimensions of test piece and position of bearings are being studied. Supplementing the bend test for ductility that was promulgated during the year, the committee is working on tests of deep cupping properties. A study of the practical use of notched-bar impact tests is being conducted, as well as an inquiry into the practice of laboratories with respect to speed of testing machines. Much work is being done on sieves and screens, as well as on methods of thickness measurement, in which practice appears to be quite divergent. The Bureau of Standards has perfected three new thickness gages which are being tried.

Machine Calibration—Calibration of a 600,000-lb. screw-testing machine at the University of Illinois was described by H. F. Moore, J. C. Othus and G. N. Krouse. Standard weights amounting to 10,000 lb. were used, in connection with an elastic bar; by alternately adding the weights to the weighing platform of the machine and, after removing them, straining the elastic bar to the same counterpoise setting, it was possible to build up loads by definitely measured increments up to the full capacity of the machine. The sensitivity of the machine was found to be about constant at roughly 30 lb. per scale division of the magnifying pointer. The error of the machine did not exceed 150 lb. for loads of 300,000 lb. or less, or 300 lb. for loads from 300,000 to 600,000 lb.

Magnetic Tests—Magnetic testing received new illumination in a paper "A Correlation of Some Mechanical and Magnetic Properties of 1.21 Per Cent Carbon Tool Steel," by J. V. Emmons, Cleveland Twist Drill Co., and R. L. Sanford, Bureau of Standards. The authors showed by careful comparison of mechanical and magnetic measurements that magnetic analysis does not afford a measure of mechanical properties but at most serves as an inspection check on some one step in the production process—for example, uniformity of heat treatment.

Rope Testing—Endurance testing of rope wire by an ingenious form of testing apparatus was described by A. V. DeForest, American Cable Co., Bridgeport, Conn., and L. W. Hopkins, Page Steel & Wire Co., Bridgeport, Conn. In this machine, which uses an interesting form of rotating cantilever-beam action, the wire is attached axially to the end of a motor shaft, then passes over a 90-deg. sector of a grooved sheave to a freely rotating chuck, and is loaded at its lower end by a weight attached through a thrust bearing to this chuck. This loading is only sufficient to prevent whipping of the wire during its rotation by the motor. To prevent torsional effects, the groove in the sheave is lubricated and the sheave is slowly rotated (2 to 5 r.p.m.). Normally, the wire is rotated at 3,000 r.p.m., but tests have been run at speeds as high as 12,000 r.p.m., with increased lubrication difficulty and wear. At from 500,000 to 1,500,000 reversals most wire specimens reach the point at which 2,000 lb. per sq.in. increase in fiber stress decreases the number of reversals by 100,000, which is arbitrarily taken as the endurance limit.

Tests of the various kinds of wire commonly used in rope making gave endurance limits ranging from 51,000 to 105,000 lb. per sq.in. and endurance ratios (endurance limit divided by tensile strength) of 63 to 26 per cent.

Endurance tests of wire rope were made in a different machine, in which short lengths of rope pass around three closely spaced sheaves mounted in a frame, to subject the wire to reverse bending of definite degree while it is pulled back and forth under constant tension. The test is considered to reach its end when a specified number of wire breaks has developed within a 1 ft. length. By a modification of the test the rope could be tested for endurance under tension combined with definite torsion, applied in the direction tending to open the strands or in the opposite direction. For ⅝-in. elevator rope both the plain-tension fatigue and the tension-torsion fatigue showed that preformed rope had an endurance nearly equal to that of the wire, while ordinary rope had a much lower endurance.

A new machine for testing manila rope durability has been built at the Boston Navy Yard, and experiments are under way to determine proper speeds and sheave sizes, so that results indicative of fiber efficiency and probable service life of the rope may be obtained. Similar machines have been used by the cordage companies and the Bureau of Standards. All utilize the principle of oscillating the rope over a sheave or pipe while it is subjected to a given tension produced by counterweights. The new Boston machine is placed in a humidity control room to eliminate the moisture variable. It also permits testing two ropes at a time, and since these may be varied in only one characteristic, such as fiber grade, oil content or turn of strand, truly comparative results may be obtained. However, absolute uniformity in manila rope is so difficult to secure that such duplicate results alone should not be given too much weight, according to N. C. Wiley, bureau of construction and repair, navy department, Washington, D. C., who read a paper describing the machine and the first test results. Consequently, the test program in Boston will be laid out to secure a large number of results from similar tests. It was pointed out that if 100 or 200 tests are required to secure a reliable result, a machine durability test has no value as an acceptance requirement for manila rope. Machine-durability tests, however, are useful when supplemented by actual service tests in helping to mold or alter specifications.

Extensometer—An autographic automatic extensometer of high magnifying power, for universal application in tension and compression testing, was described by R. L. Templin (Aluminum Co. of America, New Kensington, Pa. It comprises a light lever extensometer assembly to be clipped to the specimen (the 1:5 level making knife-edge contact), and a fine-thread contact screw adapted to touch the long end of the lever and rotated up to contact by a Selsyn motor. Another Selsyn unit, geared to the recorder drum, is actuated by a driving motor connected to the drum gear by a reversing friction drive controlled by magnets energized by an electric circuit through the contact screw and lever. With this device diagrams with as much as 16,000 magnification have been obtained, and hysteresis loops traced with high precision.

Testing apparatus and methods

Cement Fineness—An improved air-jet apparatus for determining fineness and particle-size distribution of portland cement powder from 1 to 100 microns in size was described by P. S. Roller (U. S. Bureau of Mines, New Brunswick, N. J.). The new feature is a U-shaped container into which the cement sample is placed and which may be oscillated so that a combined translatory and rotary motion is given the charge of powder, bringing it into more effective contact with the air jet and assuring more complete fractionation.

An apparatus for measuring the consistency of roofing putties and fibrous roof coatings was described by G. W. Clarvoe, of the Johns-Manville Co., New York. It is similar in principle to instruments that have been used to measure the viscosity of rubber cements and the workability of concrete and is based upon the principle of falling ball and falling cylinder viscosimeters. In the falling-cylinder type, used for extremely viscous materials, a rod ¼ in. in diameter with weights attached is lowered to the surface, released and timed through a fall of 4 in. The average of five tests is taken as the consistency. In the falling-ball type, used for materials of brushing consistency, a ¼-in. aluminum tube ending in a hollow aluminum ball 1½ in. in diameter is used. The ball is lowered until it is just covered by the material being tested. Its time during a fall of 3 in. is noted, and the average of five results is taken as the consistency. Tests made on the sensitivity of the consistometer, in which roofing putties were varied by adding 2, 4, 6, 8 and 10 per cent solvent and 2 and 4 per cent fiber, showed the instrument to be sensitive to these slight changes. Poorly mixed materials gave wide differences between single determinations, indicating that the instrument can also be used for homogeneity measurements. As a result of experience with the instrument, the author recommended that tentative specifications for consistency of both roofing putties and fibrous roof coatings be from 2 to 10 sec. for a 150-gram load at 77 deg. F.

Letters to the Editor

Tax Reduction and Salary Cuts

Sir—Reduction of our high taxes can be made through cutting salaries of those in government employ, but unfortunately there are so many expenses of government that cannot be cut that the gain to the individual taxpayer would be less than he might wish.

Of the great 1932 budget for New York City, placed at $631,366,298, some $312,420,870 represents salaries and wages. More than $200,000,000 of the rest is payment of interest on city debt and redemption of part of the debt. Pensions and welfare relief absorb more than $51,000,000; consumable supplies, maintenance and equipment and other items not in the salary list make up the rest.

Taking the $312,420,870 paryoll total, we find $84,602,774 representing the pay of police and fire departments. These were fixed by referendum not so long ago and cannot now be touched. Similarly the teachers, drawing $87,018,923 (this includes school janitors), are immune from the pruning axe. Those two items total $171,621,697 and leave as a possible target only $140,799,173. But even much of that is mandatory (the salaries of some of the judges, for example), so that not more than one-sixth of the 631 millions may be reached by any salary cut that the city could make. And a 10 per cent reduction on that would yield the taxpayers perhaps $10,000,000.

Similar conditions affect the state's operating expenses. In the 1930 budget (I haven't a more recent one available) only $42,302,633 represented "personal service" (salaries and wages), out of a $264,834,000 total. The rest was capital outlay, fixed charges and contributions, and "expenses other than personal service." Hence a cut of 10 per cent, even if the whole salary list could be reached, which it could not, would yield to the harassed taxpayers about $4,000,000.

Taking the United States government, news dispatches from Washington a few days ago placed the saving at $72,000,000 if all federal salaries of more than $1,000 a year were to be cut 11 per cent.

Let us see how these cuts would affect Mr. Jones. This gentleman has a salary of $6,000 a year. He is married and has two children. His home in Queens bears a tax of $200 a year on an assessment of $7,300. His federal income tax figures out $22.50, which the deduction for "earned income" reduces to $16.88 a year. His state income tax, 2 per cent on a different net taxable income, is $20.

On his real estate tax to the city, with a net saving of $8,600,000 out of the $535,000,000 tax levy of 1932, his proportion would be about $3.25. His state income tax, through a saving of $4,000,000 out of some $70,000,000 income tax collections by the state, would be about $1.15 lower. As to ths federal income tax, the $72,000,000 saved is about 6 per cent of the total income tax. Hence Mr. Jones might save $1 more here.

So he would "carry on" for another year with a saving of $5.40, made up of $3.25 city, $1.15 state and $1 federal reductions. This is less than 11c. a week.

Flushing, N. Y., May 20, 1932.

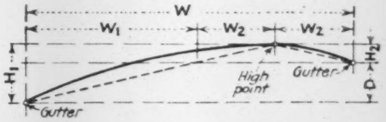
SIDNEY G. KOON.

Unsymmetrical Street Crowns

Sir—In all discussions of the problem of designing the crown for a street of unsymmetrical cross-section that have come to the attention of the writer, including those of Homer A. Humphrey (*ENR*, Jan. 7, 1932, p. 29) and Prof. M. W. Furr (*ENR*, May 5, 1932, p. 656), the methods used to determine the horizontal and vertical location of the high point of the cross-section seem to involve computations more difficult than should be necessary.

From the high point of the cross-section to both the high and low gutters the same cross-slope is commonly used that would be used on a street of the same width but of symmetrical cross-section. The resulting difference in elevation between the high point of the cross-section and the lower gutter will be greater than the crown for a symmetrical cross-section by one-half the difference in elevation between the two gutters; and the corresponding difference in elevation between the high point of the cross-section and the higher gutter will be less than the crown for a symmetrical cross-section by the same amount.

When the difference in elevation between the two gutters is given, the vertical distances from the high point of the cross-section to the lower and higher gutters can be obtained very easily by increasing and decreasing respectively the proper crown for a symmetrical cross-section by one-half the difference in elevation between the gutters. As the cross-slopes are uniform, the horizontal distances required can then be obtained by a simple proportion.



Method of computing crown on streets of unsymetrical cross-section.

Expressed algebraically, in the notation used by Mr. Humphrey:

$$H_1 = C + \frac{D}{2}$$

$$H_2 = C - \frac{D}{2}$$

$$W_2 = \frac{W H_2}{2C}$$

$$W_1 = W - 2\,W_2$$

The use of these formulas would seem to give a solution of the problem with somewhat less effort than is involved in the methods that are more often used.

A proof of these formulas for H_1 and H_2, using Mr. Humphrey's diagram and notation, is as follows:

$$\frac{1}{S} = \frac{W}{2\,C} = \frac{W_1}{D} = \frac{W_2}{H_2} = \frac{W_1 + W_2}{H_1}$$

$$W_1 = \frac{D\,W}{2C}$$

$$W_2 = \frac{W - W_1}{2} = \frac{W}{2} - \frac{D\,W}{4C}$$

$$= \frac{W}{2}\left(\frac{2\,C - D}{2\,C}\right)$$

$$H_2 = \frac{2CW_2}{W} = \frac{2\,C - D}{2} = C - \frac{D}{2}$$

$$H_1 = D + H_2 = D + C - \frac{D}{2}$$

$$= C + \frac{D}{2}$$

Iowa City, Iowa,
June 2, 1932.

R. B. KITTREDGE.
Professor of Transporation Engineering,
University of Iowa.

Forest Laboratory Established

The Swain Experimental Forest, a 6,000-acre laboratory where forestry experiments and research can be carried on, has been established near Westwood, Calif., in the Lassen National Forest by order of the chief forester in Washington. The tract contains more than 3,000 acres of red and white fir timberland on which both mature and small trees are available for future experiment in forestry methods.

NEWS OF THE WEEK

Pipe Contract at Hoover Dam May Be Held Up

EARLY AWARD of the contract for nearly $10,000,000 of heavy steel plate for the penstocks and outlet pipes at Hoover Dam may not now be possible because of an alleged infringement of patent by the low bidder, the Babcock & Wilcox Co. of New York. This company was low bidder on all twelve schedules involved in the contract. The other bidders were: A. O. Smith Corp., of Milwaukee; Chicago Bridge & Iron Works of Chicago; and the Western Pipe & Steel Co. of Los Angeles. The Bonna Pipe Co. of New York submitted an informal bid based on reinforced concrete pipe.

Since the bids were opened the A. O. Smith Co., the second lowest bidder, has advised the Bureau of Reclamation that welding patents held by it will be infringed by the low bidder in executing the contract according to the specifications.

Welding specifications

On the subject of welding the specifications say, in part: "The welding of all longitudinal joints and shop-welded circumferential joints shall be done with automatic welding machines by a process that will exclude the atmosphere from the metal while in a molten state, and with a technique that will insure uniform distribution of the load throughout the welded section, with no tendency to produce excentric loading, shear, or distortion in the weld or in the metal adjacent thereto. All longitudinal and circumferential joints shall be of a type that will produce complete fusion with the plates, and shall be free from unsound metal and cracks. The metal deposited in the extreme root of the groove shall be chipped out to a depth that will insure removal of the scale, incomplete fusion, and any evidence of irregularity in the welding procedure, and the metal so removed shall be replaced by welding. Each deposited layer of weld metal shall be thoroughly peened."

Babcock & Wilcox have orally informed the bureau that they have been advised by counsel that they could execute the contract without infringing Smith patents. The company also has let it be known that if the A. O. Smith Corp. does not sue them, they intend to sue the Smith corporation for libel.

Hearing to be held

No further information has reached the Interior Department and a hearing has been called for July 5 to develop all the facts surrounding the dispute. In the meantime, Secretary Wilbur has asked the Interior Department solicitor for an opinion whether the A. O. Smith Corp. has ground for redress against the government if the contract should be awarded to Babcock & Wilcox. The Reclamation Bureau's specifications includes a provision under which the contractor agrees to save the government from any liability on account of patents or copyrights. Casual opinion holds, therefore, that any claim the A. O. Smith Corp. may have, if the contract is awarded to Babcock & Wilcox, is not the government's concern. The opinion also prevails that the A. O. Smith Corp. cannot sustain any legal action alleging infringement of patents either against the government or Babcock & Wilcox, or both, until the contract is awarded and Babcock & Wilcox have actually undertaken the work.

New bids may be called

Another phase of the matter is whether the welding specification, as drafted by the Bureau of Reclamation, precludes any bidder but the A. O. Smith Corp. from complying therewith. In the event of such a finding, it is within the power of the Comptroller General of the United States to direct the bureau to revise its specifications and readvertise for bids.

The basis upon which the Babcock & Wilcox Co. bid $10,908,000 and the A. O. Smith Corp. $11,697,284 calls for furnishing, erecting and painting plate steel headers varying from 30 to 25 ft. in diameter, including 13-ft. diameter penstocks and other material to be shipped on government bills of lading from the mill points (Chicago and Barberton, Ohio, in the case of Babcock & Wilcox; Chicago and Milwaukee, in the case of the Smith Corp.). The government will also transport the pipe sections from the field fabricating plant to the landing platforms at the entrances to the tunnel adits. Babcock & Wilcox submitted an even lower alternative bid of $10,283,000 on the basis of the government undertaking to transport the pipe sections from the field fabricating plant to within one foot of the final position in the tunnels. The field fabricating plant would be located at Bechtel, Nev., one mile from the dam site.

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Financing of Transit Lines Over Delaware River Bridge Opposed

Bankers have advised the finance committee of the Delaware River Joint Commission that the present time is an inopportune one to float its proposed $40,000,000 bond issue. The new commission, recently set up by the states of New Jersey and Pennsylvania, is to take over control of port development at Philadelphia, including the operation of the Philadelphia-Camden bridge. One of its first undertakings was expected to be the issuing of bonds to replace the bonds of the Delaware River Bridge Joint Commission and to repay the states of New Jersey and Pennsylvania and the city of Philadelphia for money put into the bridge. It also proposed to issue bonds to cover the cost of completing the rapid transit lines over the bridge which was projected and provided for when the bridge was built. About $8,000,000 of the bond issue was expected to be required for the high-speed bridge line.

Public Works Bill Begins to Take on Its Finished Form

Washington Correspondence

AS NO HEED will be given by Congress to President Hoover's latest onslaught against "pork-barrel" legislation, the question now is whether there are sufficient votes for a program of public works to over-ride a veto.

As passed by the Senate, the major provisions of the Wagner bill remain practically intact. House and Senate conferees are expected to reach a compromise on a bond issue for federal public works somewhere between the $500,000,000 carried by the Wagner bill and the $1,000,000,000 in the Garner bill. That will invite a veto if the conferees avoid a deadlock on the question whether specific projects should be listed as they are in the Garner bill. The Wagner bill leaves $192,940,000 for projects to be selected by President Hoover for which funds have been or will be appropriated for in 1932 or 1933. Vesting the President with such discretion does not please Rep. Garner nor many of his colleagues.

Road construction

The certain prospect of a veto of the relief bill imperils funds for federal-aid road construction. The Wagner bill allots from the $500,000,000 total for federal public works, $120,000,000 for temporary advances to enable the states to match federal funds but the regular federal-aid bill for 1934 and 1935 has not yet been enacted, and from July 1 there will be no federal-aid money available to 38 states for road construction. The bill passed the Senate carrying $125,000,000 minus $16,000,000 representing the unpaid balance of the $80,000,000 advanced last year to enable poor states to take up federal funds on the 50-50 basis. The House committee cut the bill to $100,000,000 and the House has refused to act pending disposition of the relief bill.

The terms under which the Reconstruction Finance Corp. is authorized to loan for self-liquidating projects $1,500,000,000 derived from sale of its debentures have been modified to some extent to prevent public utilities and private industries from participating. The "quasi-public" corporation has been eliminated from the picture. Much more liberality is shown with reference to loans to states, municipalities, public corporations and similar instrumentalities as the Reconstruction Finance Corp. would be authorized to bid for and purchase their securities without regard to the date of their maturity. The term originally contemplated was 10 years.

Loans for housing

Corporations created for the purpose of providing housing for low-income families and for reconstructoin of slum districts, which are regulated by state or city, would be eligible for loans. Loans also would be available to private limited-dividend corporations to aid in the development of forests and other renewable natural resources, which are under state regulation and are self-liquidating in character.

Loans made to private corporations would include not only construction but improvement and replacement of self-liquidating projects, but the list is specifically limited to the following: bridges, tunnels, docks, viaducts, waterworks, including industrial water supply systems, and canals, devoted to public use.

A self-liquidating project is defined as one that "will be made self-supporting and financially solvent and if the construction cost thereof will be returned within a reasonable period by means of tolls, fees, rents, or other charges, and by such other means as may be prescribed by the statutes which provide for the project," but an exception is made for financing publicly owned bridges for railroad and highway uses, partly out of tolls and the remainder out of taxes.

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Joint Concrete Committee Plans Code Revision

The joint committee on concrete and reinforced concrete held a two-day session in Philadelphia on June 20 and 21 during which the subject of revision of the specifications first put out in 1916 and revised in 1924 received careful consideration. The 1924 specification was devoted entirely to buildings. The new revision will extend the coverage to all concrete structures requiring engineering analysis, making the specifications much more voluminous. Tentatively, it is planned to separate code requirements and design procedure, which were grouped in the previous specifications. Design procedure would be set forth in a manual of practice. As to proposed detailed changes, two were announced: (1) specification of both a minimum strength and a maximum water-cement ratio for concrete, a provision planned to assure the use of enough cement for durability requirements when high strength is not required; and (2) change from a 28- to a 7-day-strength test requirement. A. E. Lindau of Chicago was elected chairman to take the place of the late Willis A. Slater. Prof. F. E. Richart, University of Illinois, was elected vice-chairman.

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Highway Tax on Interstate Trucks in Ohio Upheld

The Iowa state law requiring the payment of a license fee by interstate trucks operating within the state was declared constitutional on June 25 by Federal Judge Charles A. Dewey in a decision rendered in a suit brought by the Grolbert Trunk Line, a trucking organization operating in several states. The trucking company claimed to be a private contract-carrier and not subject to payment of the fee. The court found that as the company advertised for interstate business, maintained regular terminals in various cities and had definitely established rates, it was a common carrier, also that the State would collect a license fee from interstate operators, could require common-carrier truck operators to furnish bonds, and could tax carriers on the basis of truck capacity and miles traveled within the state.

Federal Regulation of Motors on Highways Proposed

A SYSTEM of federal regulation of motor vehicles operating on public highways is proposed in a bill introduced into Congress by Representative Rayburn of Texas, chairman of the House Committee on Interstate and Foreign Commerce. Mr. Rayburn states that the bill is not introduced for action at the present session of Congress but for the purpose of study in order that it may come up for action at a later session.

The proposed method of regulation is based on the findings of the Interstate Commerce Commission as a result of its study of the subject of coordinating rail and motor transport. The commission report was published in April and was abstracted in our issue of May 5, page 660.

Common carriers of passengers by motor vehicle would be required to obtain from the Interstate Commerce Commission a "certificate of public convenience and necessity" as a condition precedent to doing business. These certificates would be issued by the commission with a view to preserving competition and maintaining adequate service. Consolidation of such carriers or the acquisition of two or more of them by a holding company would not be permitted without the commission's approval. The commission would be authorized to establish reasonable requirements with respect to the transportation of baggage, comfort of passengers, pick-up and delivery points and other matters relating to the service to be rendered by such carriers, and to require the filing of insurance policies for the protection of the public. Rates also would be subject to the commission's approval.

Private carriers of passengers, and common and private carriers of property, would not be required to obtain certificates of public convenience and necessity but must obtain a permit from the commission. This requirement would be mainly for making it possible for the federal government to acquire information which would not otherwise be available and which is deemed necessary before suitable legislation can be formulated for more comprehensive regulation of such types of motor carriers in the future. Such carriers also would be required to maintain insurance for the protection of the public and to file such reports with the commission as it deemed necessary. The operations of all private carriers of passengers over fixed routes may also be regulated to the extent necessary to prevent interference with common carriers of passengers by motor vehicles thereon.

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Work for 600 Men Assured on Army Bombing Base

Employment for about 600 men is assured by the award of contracts by the War Department for constructing the first unit of the bombing base in Marin County near San Francisco. Contracts totaled more than $800,000 and include grading, street work, sewers, water system barracks and officers' quarters. The largest contract went to J. D. Hannah Co., San Francisco for $650,675 including all of the buildings; the company expects to employ a maximum of 500 men mostly in the building trades. Other contracts involve mostly machine work in grading and trenching. Work will begin by the first of July and many of the jobs will last for ten months.

MISSISSIPPI FLOOD STUDIED IN MODEL FORM

The largest and most extensive river model ever built was recently completed at the U. S. Waterways Experiment Station, Vicksburg, Miss. The model simulates the river from Greenville, Miss., to the mouth of the Red River. It is to be used to study the effect to be obtained by structures designed to improve the river channel. Operation of the experiment station is under the direction of the Mississippi River Commission with Lieut. Herbert D. Vogel of the Corps of Engineers in charge.

Plans for High Rock-Fill Dam Approved by California Board

Plans and specifications for the proposed Dam No. 1 of the San Gabriel Canyon flood control project of Los Angeles County (Calif.) have been given state approval. Members of the county board of supervisors announced that bids would be advertised as soon as the county has assurance from financial interests that at least $5,000,000 worth of flood control bonds will be purchased. The Bank of America already has signified its intention of taking $2,000,000 of the issue. The estimated cost of the Dam No. 1 construction is $10,000,000. It will be of the rock-fill type, 375 ft. high. The estimated storage capacity is 68,000 acre-ft.

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State Funds for Traffic Arteries in California Cities Proposed

Use of state highway funds for the construction of major traffic arteries through cities is advocated by the Los Angeles Traffic Association, which will present the subject to the California State Highway Commission and Governor James Rolph, Jr. David R. Faries, vice-president of the association and head of its major highways committee, said at a recent meeting that the assessment system of financing street improvements has broken down. In many cases, he said, the assessments are too great for the value of the property involved and that the assessment system is unfair, causing property involved to bear more than its share of the cost of the improvement.

◆

Engineers to Study Government Structures in Illinois

Out of the last special session of the Illinois State Legislation came a commission on taxation and expenditures. Numerous hearings have been held by its subcommittee on consolidation of local governments and recently this committee appointed Griffenhagen & Associates, engineers and specialists in public administration and finance, to make a study of metropolitan government in Chicago and local governments in down-state counties. The local government assignment has to do with an analysis of the existing structure of government and the development of a plan of organization that will be more simple, more effective and more economical than the existing governments.

Elmer J. Schnackenburg, secretary of the commission, in announcing the employment of the specialists stated that it is hoped to secure substantial economies through fundamental changes in the complex, unwieldy and highly expensive structure of local government with its multitudinous units (more than 400 in Cook County alone and 16,000 in the State) its overlapping functions and its conflicts of jurisdiction. The sum of $25,000 was appropriated for the undertaking which is to head up in legislation to effect the changes that are proposed. The recommendations will indicate (1) urgent remedial measures feasible of immediate adoption, (2) changes feasible over a definite period and (3) far-reaching and desirable changes not believed feasible of immediate adoption.

Cloyd M. Chapman Made Head of A.S.T.M.

Cloyd M. Chapman, consulting engineer, New York City, was elected president of the American Society for Testing Materials at its meeting held at Atlantic City June 20-24. Mr. Chapman graduated from Cornell University in the class of 1898 in mechanical engineering. During the Spanish-American War he served as an engineer officer in the Navy and at its close entered the employ of Thomas A. Edison as an assistant in his private laboratory. Subsequently he did mining exploration work for Mr. Edison in Mexico, Canada and Australia. From 1905-1920 Mr. Chapman was employed by Westinghouse, Church, Kerr & Co. on design and construction work and as engineer of tests. Since 1920 he has been in consulting practice.

In the American Society for Testing Materials Mr. Chapman has served as chairman of the committee on concrete and concrete aggregate and as a member of the committee on standards.

William H. Bassett, metallurgical manager of the American Brass Company, Waterbury, Conn., was made vice-president of the Association.

◆

Triangulation Survey in Ohio and Indiana Completed

The new arc of triangulation extending from Versailles, Ind., northward along the Ohio-Indiana boundary to its intersection with the southern boundary of Michigan, with triangulation stations at 10-mile intervals, recently was completed by the Coast and Geodetic Survey. The arc passes near Brookville, Liberty, Richmond and Winchester, in Indiana, and Eaton, Greenville, Celina, Paulding, Defiance and Bryan in Ohio.

◆

Technical Employment Service Established at Philadelphia

The Engineers' Club of Philadelphia, supported by 12 affiliated engineering societies, has organized the Philadelphia Technical Service Committee for the purpose of assisting the employer of technical talent to readily secure the proper man for each opening, and the unemployed engineer to find employment. This committee has the cooperation of the Pennsylvania State Employment Commission, which assures its permanence.

Trained men to the number of 850 are now registered with the committee, and the list covers a wide range of activities.

In addition to the placement service, a "job consultation service service" is offered. Upon request, a technical employment specialist of wide experience will help the prospective employer to prepare his job specifications. This is to aid him in securing the best the field affords for the handling of his technical problems.

The facilities of the committee are made available to either employer or employee entirely without cost. All communications are held strictly confidential.

Three New Interstate Bridges Ready to be Put into Service

The Indiana state highway department is a participant in the dedication of three new interstate bridges, two of which supersede ferry transfers. The bridge over the Wabash, between Princeton, Ind., and Mt. Carmel, Ill., dedicated June 24 and built in conjunction with the Illinois highway department, has twelve steel truss spans of 225 ft., with 22-ft. roadway, 4-mile approach on the Indiana side and ½-mile on the Illinois side. The channel span gives 25 ft. headroom above the 1913 flood level. This bridge, built by the Vincennes Bridge Co., Vincennes, Ind., cost about $400,000, exclusive of approaches. On July 4 there will be the dedication of the Ohio River bridge between Evansville, Ind., and Henderson, Ky. Both of these crossings were formerly made by ferries. The third bridge, soon to be dedicated, is the concrete arch structure over the Wabash River at Vincennes, Ind., described in *Engineering News-Record* of Nov. 20, 1930, page 811, in connection with the old steel structure. This new bridge is a memorial to Gen. George Rogers Clark.

◆

Reduction in Water Rates Retained in Indianapolis

The Indiana Public Service Commission, on June 22, approved the new rate schedule for the Indianapolis Water Co. that had been recommended by the member of the commission who had conducted hearings in the case. The company had filed a petition to increase the rates that were put into effect on April 1.

The history of the case goes back to the early months of the year, when a movement was instituted to reduce the then prevailing water rates. As a result of the hearings held at that time, a compromise schedule was accepted by the company which reduced the minimum rate from $1.50 per month for 700 cu.ft. to $1.08 per month for 500 cu.ft., and reduce the hydrant rental charged the city by $66,000 effective April 1. To make up for the reduction in revenue, the rate schedule for large users of water was increased.

Shortly following the acceptance of the compromise schedule by the company, objections were made by real estate companies owning and operating apartment houses, and in answer to a petition filed by one of the companies, the water company was enjoined from collecting the higher rates included in the schedule. Thereupon the water company petitioned for a reinstatement of the original rate schedule.

At the hearing on June 13, the water company claimed a valuation of $26,456,000, on which it should be entitled to earn 7 per cent. The decision of the commissioner conducting the hearings was that the company should be entitled to earn 6 per cent on a valuation of $21,118,000 by an emergency rate schedule which should apply until a complete valuation study could be made.

The action of the Public Service Commission approved the finding of the commissioner, retaining the reduced rate schedule for small consumers and the city of Indianapolis, and scaling down the increase in apartment house rates materially below the schedule of April 1.

Right To River Bed Held Taxable

Easements granted to power companies for the construction of dams and impounding of water are subject to taxation, according to a ruling given by the Attorney-General's department of the State of Texas. The permit itself is but a license, according to the decision, but if possession is taken of the river bed, dams built, and water impounded, the exercise of these rights create an estate in the land.

Funds Provide for Completion of Cincinnati Union Terminal

A loan of $10,398,925 from the Reconstruction Finance Corp. to enable the Cincinnati Union Terminal Co. to continue construction of the union passenger station and terminal in that city has been approved by the Interstate Commerce Commission. The company had applied for $11,400,000 and the approval of the smaller sum is without prejudice to the consideration of further loans. The estimated cost of completing all facilities, according to present plans, is $13,795,511, in addition to expenditures to April 30, 1932, of $30,195,341.

Ontario May Take Over Work on Abitibi Canyon Power Project

Because of the inability of the Ontario Power Service Corp., a subsidiary of the Abitibi Power & Paper Co., to meet the interest on the $20,000,000 of bonds issued for its hydro-electric power development in the Abitibi Canyon in Northern Ontario, it is possible that the Ontario Government, directly, or through the Ontario Hydro-Electric Power Commission, may take over the power development in order that the men now employed on the work may not be thrown out of employment, also to assure completion of the project in time to make the power deliveries already contracted for, including one of 100,000 hp. for delivery to the power commission. The plant will contain five units of 66,000 hp. each.

Hetch Hetchy Bonds Sold; Contract Undecided

Bonds to complete the Hetch Hetchy water supply project of San Francisco were sold last week bearing an interest rate of 5.26 per cent. The sale consists of the $6,500,000 issue recently voted to finish the Coast Range tunnels. City officials were especially pleased at the interest rate which is said to be one of the lowest demanded for municipal financing under present conditions. The bond sale, following the election, assures the uninterrupted completion of the Hetch Hetchy project with its crews aggregating about 1,500 men.

Meantime, no decision has been reached over award of contract for completing the tunnels which are being driven by city forces. Bids were called, in accordance with the new charter provision, and the city department was low by $600,000 for completing the $5,500,000 job. The bids have been under study since and it is undecided what action will be taken. Three possibilities are open: (1) Award contract to city department on low bid of $5,257,665; (2) award to next low bidder, Lindgren and Swinerton, on bid of $5,815,335 and (3) call for new bids.

Power Company Asks More Time for Start of Flathead Project

The Rocky Mountain Power Co., has asked the Federal Power Commission for an extension of the time in which it must complete its $8,000,000 power project on the Flathead River in Montana. The company would postpone completion until 1935.

Opposition to an extension of the time has been raised by the Office of Indian Affairs because of rentals accruing to the Indians within the area. The original license calls for a payment of $1,000 per month to the Indians up to the time of completion of the project and thereafter amounts ranging from $5,000 a month at the start of operation to $175,000 per year at the end of fifty years.

Construction of the diversion tunnels, the slowest operation involved in the undertaking, was started some time ago.

Highway Work in Nebraska May Be Let on Local Preference Basis

Bidders for $1,700,000 of highway work to be let at the end of this month in Nebraska are being asked to consider as one of the conditions of the contract that they will use material made in the state, including cement and sand, will pay a minimum wage of 30 cents an hour to common labor, will enforce a maximum 10-hour day and will use hand labor in preference to machinery. It is stated that engineers of the Bureau of Public Roads have approved of this method of calling for bids on federal-aid highway work.

New Missouri River Channel to Kansas City Completed

The newly completed 6-ft. navigable channel in the Missouri River from St. Louis up to Kansas City was formerly opened on June 21 when two towboats of the Inland Waterways Corporation with Secretary of War Hurley on board left St. Louis for an inspection trip up the river. Preparation of the channel to make it available for barges of 6-ft. draft has been in progress under the direction of the Corps of Engineers for several years. Channel widths of 200 ft. are to be maintained. The estimated cost of the work is placed at $50,000,000 and the annual maintenance charges at $1,000,000.

Niagara Frontier Bridge Project Continued in Active Status

Two bills, renewing the authority of the Niagara Frontier Bridge Commission to construct two toll bridges to Grand Island in the Niagara River, passed the House of Representatievs by unanimous consent on June 21. One bill, that providing for a bridge from Tonawanda to Grand Island, already has passed the Senate and now goes to the President for signature. The other bill is for a bridge from the city of Niagara Falls, N. Y., to Grand Island. Both bills provide for the issuing of bonds by the commission and the charging of tolls to defray the cost of operation and construction. The bridge commission was set up by the state of New York.

Application of Engineering to Agriculture Considered at Ohio State Meeting

APPLICATION of engineering principles and methods to the problems of agriculture was urged by agricultural engineers and agricultural extension leaders at the annual meeting of the American Society of Agricultural Engineers at Ohio State University at Columbus, from June 20 to 23.

Arthur Huntington of the Iowa Railway and Light Corporation declared that "mass distribution as well as quantity production, more engineering and less politics" are badly needed by the agricultural industry. "For more than a century," Mr. Huntington said, "the engineer has been revolutionizing production methods, and he has created mass production. Now he must revolutionize the economics of distribution."

M. L. Wilson, professor of agricultural economics at Montana State College declared that agricultural engineering will produce many economic and social problems during its advancement.

The results of soil heating by electricity were described during a symposium in charge of Prof. B. D. Moses of the University of California. In soil heating by electricity, Professor Moses said resistance wires generally are buried from 6 to 12 in. under the surface of the soil, or supported on frames underneath trays in hotbeds. Experiments have shown that under certain conditions plant growth is stimulated, resulting in earlier blooming of flowers and earlier bearing of vegetables.

Soil erosion was held up to the society as "the most important problem that faces American agriculture today" by L. A. Jones, chief of the Division of Drainage and Erosion Control of the United States Department of Agriculture. Mr. Jones said that at least 75 per cent of the land now under cultivation in this country already has been affected seriously by erosion, and more than 17,000,000 acres of farm land has been destroyed. Terracing—construction of hill-side ditches which collect run-off water and conduct it to a safe outlet before it attains sufficient velocity to erode the land—is one of the most common and effective methods of such control, according to Mr. Jones. Experiments in terracing are being conducted in different parts of the United States, and the United States Department of Agriculture is acquiring an experimental farm in Muskingum County, Ohio, where extensive studies and experiments will be started in the fall.

The first Cyrus Hall McCormick medal "for exceptional and meritorious achievement in agriculture" was presented by the society to Oscar Van Pelt Stout, irrigation engineer for the U.S.D.A. at Oakland, California. It will be awarded annually by the society hereafter.

Charles E. Seitz, professor of agricultural engineering at Virginia Polytechnic Institute was installed as president of the society, succeeding Leonard J. Fletcher of the Caterpillar Tractor Company of Peoria, Illinois.

SOCIETY CALENDAR

AMERICAN SOCIETY OF CIVIL ENGINEERS, annual convention, Yellowstone National Park, July 6-9.

Fall meeting, Atlantic City, N. J., October 5-8.

SOCIETY FOR THE PROMOTION OF ENGINEERING EDUCATION, 40th annual meeting, Oregon State College, Corvallis, June 29-July 1.

NEW ENGLAND WATER WORKS ASSOCIATION, annual meeting, Springfield, Mass., September 27-30.

AMERICAN PUBLIC HEALTH ASSOCIATION, annual meeting, Washington, D. C., October 24-27.

THE SECOND ANNUAL CONFERENCE on Management Problems of the Smaller Industries, a division of the Silver Bay Industrial Institute, is to be held at Silver Bay, Lake George, N. Y., July 11-15. The Supervisors Division will hold its conferences on present-day problems, July 8-22.

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Personal Notes

George A. Dorfman, appraisal engineer, is now associated with Edmund J. McCormick, Brooklyn, N. Y.

O. H. Ammann, chief engineer of the Port of New York Authority, received the degree of Master of Science of Yale University at its commencement exercises held on June 22.

J. A. L. Waddell and **Shortridge Hardesty** have become associated with the firm of Parsons, Klapp, Brinckerhoff & Douglas as consulting engineers to the bridge department of that firm. **Eugene L. Macdonald**, who has been associated with Waddell & Hardesty for many years, will act as chief engineer in the design of all steel bridges. The firm of Waddell & Hardesty will carry on their bridge projects now under contract.

Henry V. Macksey, superintendent of public works, Woburn, Mass., will retire from active service upon completion of the new water supply system on July 1. Mr. Macksey is a native of Bridgeport, Mass., and a graduate of Rensselaer Polytechnic Institute in the class of 1886. He became superintendent of public works at Woburn in January, 1915. Previous to that time he was in the water department and street department of Boston.

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Obituary

James Franklin Parr, former assistant to the engineer of St. Louis, died at his home here on June 17, age 73 years. Mr. Parr studied engineering at the University of Michigan, and since leaving school devoted the greater part of his time to land surveying work.

Terrence Campbell, railroad contractor, died at his home in Cleveland, Ohio, on June 24, following a long illness. Mr. Campbell was 74 years old. For the past 35 years he has been active in railroad construction work.

George Nathan Merrill, civil engineer, died at his home in Longmeadow, Mass., on June 23. Mr. Merrill was 77 years old. Following graduation from Colby College in 1880 he went west on railway location surveys. Ten years later he returned to Springfield, Mass., to take up railway surveys and construction in the East. Subsequently he made preliminary surveys for the Boston Elevated Railway and for the electric lines from Boston to Haverhill, Lawrence and Lowell.

Raymond A. Perry, president of the Standard Dredging Co., New York, died at his home in Plandome, Long Island, on June 19, following a brief illness. A native of Canada, Mr. Perry was taken to California by his parents when a child. At the age of 13 he began work as a fireman on the Southern Pacific Railroad, studying engineering in his spare time. Subsequently, while working for the San Fracisco Bridge Company, he became interested in dredging and later built two hydraulic dredges and began dredging operations which continued up until the time of his death.

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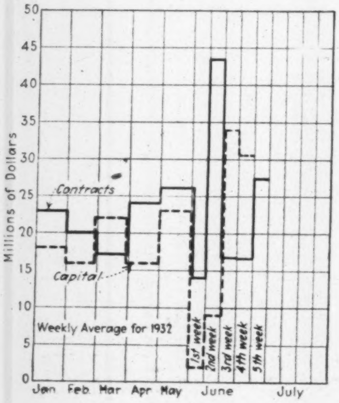
Engineering Contracts and Capital

Engineering contract awards reported for the past week total $25,609,000, almost double the previous week's low total of $14,689,000. Large contracts let during the week include the Newark, N. J., postoffice, $2,868,000; Ohio state highways, $1,847,000 and a telephone exchange in Des Moines, $1,250,000. Cumulative contracts from the first of the year to date total $570,000,000, or 60 per cent below awards for the same period last year.

New capital reported for the week ending June 25 amounted to $31,616,000, bringing the total for the year up to $429,000,000. The first issue of new capital for private construction listed in several weeks was reported last week, consisting of a loan of $10,399,000 to the Cincinnati Union Terminal Co. by the Reconstruction Finance Corp. Cumulative capital issues to date are 71 per cent below the total of the similar period of 1931.

Huge Bond Default—More than $133,000,000 corporation bonds have defaulted in interest or principal or both during the past month, according to a compilation by Dow, Jones & Co. Of this amount $67,200,000 were utility, $37,163,000 industrial and $29,211,000 real estate. Total bonds in default as of June 15 amount to $2,141,772,460, distributed as follows: railroad, $354,434,000; public utilities, $573,631,230; industrial, $608,304,630; real estate, $605,402,200.

School Indebtedness—Dr. William John Cooper, U. S. commissioner of education, states that the school bonded indebtedness of the country totals $1,789,962,000 an increase of over a billion dollars within the past eight years, or a 175-per cent increase. Dr. Cooper further states that though the debt is large, it is not alarming, as cities will pay off much of the indebtedness within the next ten years without materially adding to it. The opinion was expressed that present grade school capacity is sufficient for some time to come, but an expansion in high school facilities will be necessary if the present increasing trend in enrollment keeps up. School construction at present is practically at a standstill.



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Contracts and Capital

CONSTRUCTION
(Thousands of Dollars)

	Weekly Average June 1931	Weekly Average June 1932	Week June 30, 1932
Federal government...	$5,039	$6,240	$5,190
State and municipal...	26,395	11,784	13,954
Total public........	31,434	18,024	19,144
Total private.......	17,647	5,172	6,465
Week's total........	$49,081	$23,196	$25,609

Cumulative, Jan. 1 to date:

1931 construction....................	$1,425,498
1932 construction....................	570,328

Decrease, 60 per cent.

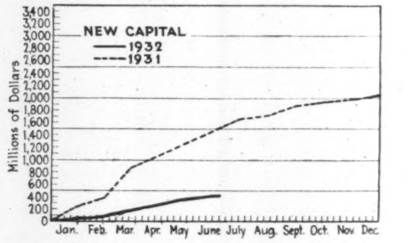
NEW PRODUCTIVE CAPITAL
(Thousands of Dollars)

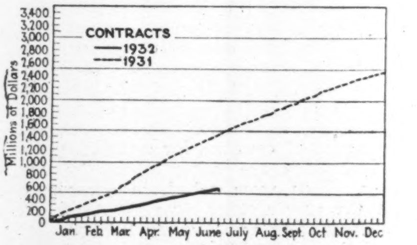
	Weekly Average June, 1931	Weekly Average June, 1932	Week June 25, 1932
Public..............	$23,750	$16,000	$21,217
Private.............	18,750	2,500	20,399
Week's total........	$42,500	$18,500	$31,616

Cumulative, Jan. 1 to date

1931 new capital....................	$1,465,000
1932 new capital....................	429,000

Decrease, 71 per cent.





ENR Cost and Volume Index

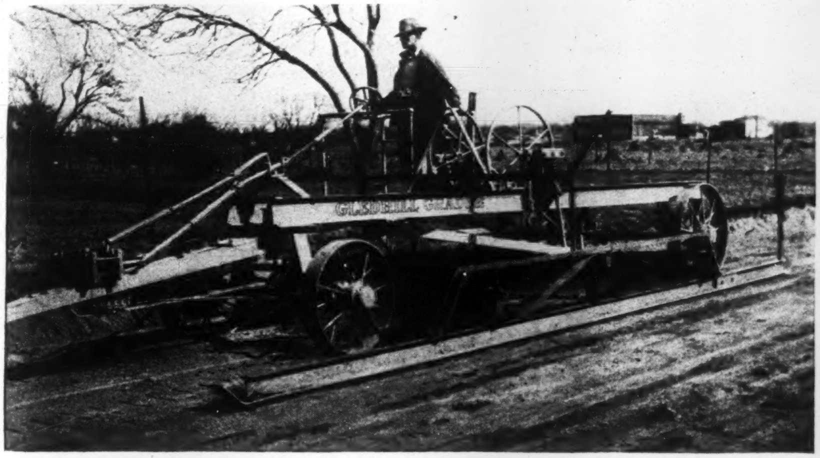
Cost		Volume	
June, 1932....	**152.20**	**May, 1932........**	**149**
May, 1932.....	152.78	April, 1932........	135
June, 1931.....	187.26	May, 1931........	251
1931 (Average)	181.35	1931 (Average)....	220
1930 (Average)	202.85	1930 (Average)....	260

1913 Average.............. 100.00

Construction Equipment and Materials

Road Scraper and Chassis

The Gledhill Road Machinery Co., Galion, Ohio, announces that its road adjuster is now available on its own chassis as a complete unit. An extension out to the side of the platform permits the operator to follow the berm line accurately.



Gledhill road "Adjuster" on its own chassis.

The blade has a long overhang that permits operation on soft shoulders with the wheels on the solid part of the road. The weight of the chassis alone is 3,600 lb. The complete unit with a 9-ft. blade weighs 5,400 lb., and with a 10-ft. blade it weighs 5,600 pounds.

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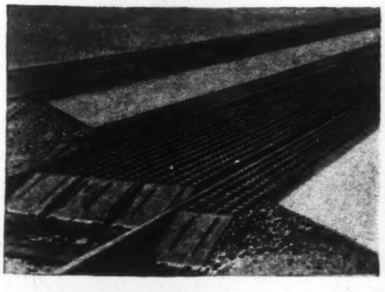
Smithsteel Highway Rail-Crossing

A new type of highway rail-crossing, known as the Smithsteel crossing, is announced by the A. O. Smith Corp., Milwaukee, Wis. The wearing surface consists of a series of channel-shaped rails, formed of steel plates in such a way that they are characterized by great strength and light weight. Their top surfaces are provided with rows of raised nubbins to give traction. Flanges in the bottom engage with steel sections supported on the tie, holding the entire structure together as a unit. The ends are closed in with ramps, and insulation is provided for the use of a signal system. The new crossing can be assembled easily as needed for track work. The manufacturer claims that the new product has a life of fifteen to twenty years and requires no maintenance.

A. O. Smith Corp.'s new steel highway-crossing.



New Equipment in Brief

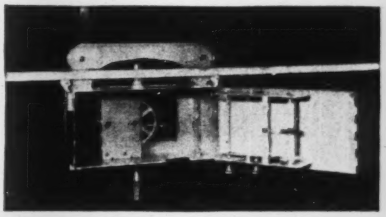
Cement-Lined Steel Pipe—To provide protection against tuberculation and unusual internal corrosive conditions, the Naylor Pipe Co. has perfected a centrifugal process for lining its spiral-welded steel pipe with an inner lining of cement. Outside it provides for applying a ¾-in. gunite coating and welded fabric reinforcing either at the factory or on the job. The inner surface has a high degree of smoothness.

Caterpillar Stationary Unit—The Caterpillar Tractor Co., Peoria, Ill., is now offering a line of its tractor motors that have been adapted for stationary and industrial power uses. Included in the list is a new four-cylinder diesel engine, 6⅛x9¼ in., turning at 700 r.p.m. Next on the list is the Sixty-Five, a four-cylinder gasoline engine, operating at 650 r.p.m. The Fifty, Thirty-five, and Twenty-five engines very closely resemble each other in design, construction and relative performance. All are four-cylinder engines and operate at 950, 950, and 1,250 r.p.m., respectively.

Midget Drill—The Speedway Manufacturing Co., Cicero, Ill., announces the Midget Drill, the latest addition to its line of portable electric tools. The new drill is custom-built to suit the individual requirements of the user. By supplying the proper gearing it can be had so as to operate at a no-load speed of from 550 to 3,000 r.p.m., with consequent torque characteristics. The motor operates on either alternating or direct current. The capacity is $\frac{3}{16}$ in. in steel. The machine weighs 3 lb. The housing and gear case are of aluminum.

Mechanical Cross-Section Plotter

A new invention designed to facilitate the plotting of road cross-sections and to record on suitable section paper the horizontal and vertical measurements has been placed on the market by Horace W. Scott, Wilmington, Del. The instrument is known as the Karto-Graf. A level track is set up for the device at the station where a cross-section is desired. The instrument is supported by wheels that run on the track, and by the use of a stem that extends to the ground surface the profile is automatically plotted.



The Karto-Graf for determining cross-sections and for plotting them mechanically.

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New Publications

Nickel Alloy Steels — "Nickel Steel Topics" is the title of a new bi-monthly paper devoted to the interests of users and fabricators of nickel alloy steels, published by the International Nickel Co., Inc., 67 Wall St., New York City. The new publication is an illustrated miniature newspaper containing technical, semi-technical and news articles dealing with the production, treatment and uses of these steels in the rolled, forged and cast form, as well as editorials, questions and answers and other special features.

Teegrid Floors—The Truscon Steel Co., Youngstown, Ohio, in its Engineering Handbook No. 4 describes its new Teegrid floor system for bridges and sidewalks. The publication includes information for the engineering design of Teegrid slabs as well as specifications for their use. The booklet contains 48 pages of concentrated data.

Chlorinated Lime—"Looking Into New Developments in Sewage Treatment With Chlorinated Lime" is the title of a six-page pamphlet published by Innis, Speiden & Co., 117 Liberty St., New York, which is a brief discussion of the uses to which bleaching powder is now being put in sewage-treatment processes. The discussion is mainly concerned with the differences in action between chlorine gas and calcium hypochlorite solutions.

Bituminous Materials—A ten-page booklet describing equipment for heating bituminous materials has been issued by the Cleaver-Brooks Co., Milwaukee, Wis. In general, the equipment consists of a rapid-steaming boiler for supplying steam to the coil system of tank cars. The Cleaver heaters are equipped with a return condensate system. The bulletin also describes the Cleaver "Booster," which will raise to application temperatures bituminous materials that are already hot enough to be pumped.

Current Construction Unit Prices

Concrete Arch Highway Bridge, California

THE California state highway department awarded a contract April 25 for a reinforced concrete highway bridge across Rocky Creek in Monterey County. The bridge consists of an open spandrel arch of 239-ft. span and six concrete girder approach spans totaling 258 ft. Clear roadway width is 24 ft. Railings are concrete, open design. The arch span is two ribs, each 4 ft. wide, 7½ ft. thick at the skewback and 4 ft. thick at the crown. Spandrel bents, two posts each, are 21 ft. c. to c. The arch spans a narrow gorge. It is 72 ft. from mean water level to spring line and 56 ft. from spring line to center of arch rib at crown.

Foundations are spread slightly, resting on rock. Approach span bents are two-post, from 20 to 60 ft. in height. Arch abutment towers are H-shaped 80 and 92 ft. in height.

Eleven bids were submitted. The accompanying table gives the low (contract), high and average bids. (A) Ward Engineering Co., San Francisco (contract); (B) Schuler & McDonald, Oakland; (C) average of 11 bids. F. W. Panhorst is acting engineer of bridges.

Minimum daily wages to be paid are stipulated as follows:

Common labor	$4.00	Crane operator	$10.00
Skilled labor	5.50	Oiler	6.00
Tractor driver	6.00–7.00	Reinforced steel	9.00
Carpenter	8.00	Mechanic	7.00
Truck driver	6.00–6.50	Other min.	4.00

Item	Quan.	A	B	C
Stripping, cu.yd.	750	$1.50	$2.00	$1.46
Fdn. excavation, c. y.	1,330	1.50	5.00	2.65
Conc., class A, c. y.	1,190	24.40	36.00	25.65
Conc., class B, c. y.	425	15.00	31.00	21.44
Conc., class E, c. y.	46	48.00	60.00	57.07
Conc., cl. A, arches, c. y.	395	24.50	90.00	37.40
Reinf. steel, lb.	275,000	.04	.05	.041
Cast steel rockers and bearings, lb.	2,350	.14	.30	.16
Bronze exp. pl., lb.	300	.23	.43	.30
18-in. corr. pipe, ft.*	60	.60	1.50	1.07
Misc., lump sum		315.00	628.00	777.00
Total		$62,166	$117,777	$74,291

*Material furnished.

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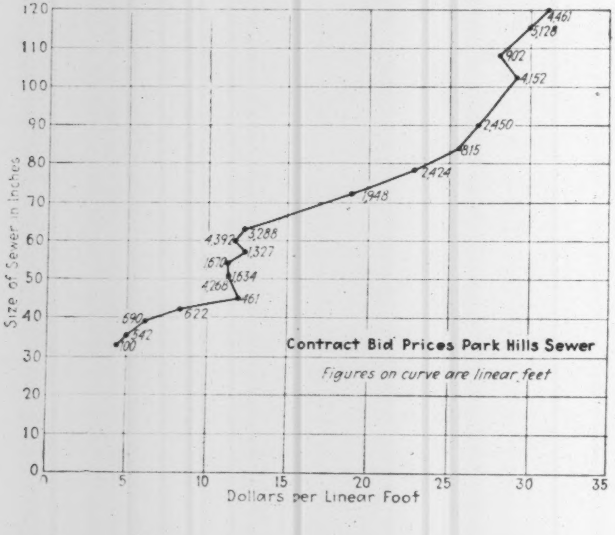
Park Hill Brick Sewer in Denver

CONTRACT for Park Hill storm sewer in Denver was awarded in March, 1932, by the department of improvements and parks, to Construction Service, Inc., formed by local contractors, for $1,074,293. There were two other bids: (B) A. Arcari, Highland Park, Mich., $1,159,996; (C) Macdonald & Kahn, Ltd., San Francisco, $1,256,441.



Contract Bid Prices Park Hills Sewer

Figures on curve are linear feet

Alternate bids on concrete

Principal items cover some 50,000 lin.ft. brick sewers 33- to 120-in. Bids were received also on: (1) reinforced-concrete, 66- to 120-in.; (2) precast, 24- to 90-in.; (3) monolithic concrete, 33- to 78-in. The successful contractors' bids on the several types were in the following amounts in thousands of dollars for the various sizes:

Size	Brick	Concrete		
		Reinforced	Monolithic	Precast
102- to 120-in.	437	461	...	
78- to 90-in.	142	145	...	134
33- to 72-in.	251	...	224	233

BRICK OR CONCRETE SEWERS

Length, Ft.	Size, In.		A		B	C
			Per Foot	Amount	Per Foot	Per Foot
67	114x120	Box sewer	$56.26	$3,769	$50.00	$50.00
4,461	120	Brick	31.07	138,603	29.80	34.50
		Rein.-concrete	33.86	151,050	.....	33.70
5,128	114	Brick	29.70	152,302	29.20	34.10
		Rein.-concrete	31.00	158,968	.....	33.94
902	108	Brick	28.10	25,346	28.10	33.68
		Rein.-concrete	29.05	26,203	.....	33.48
4,152	102	Brick	29.20	121,238	27.75	28.75
		Rein.-concrete	30.05	124,768	.....	28.53
2,450	90	Brick	26.85	65,783	.....	31.75
		Rein.-concrete	27.30	66,885	.....	30.75
		Precast	26.30	64,435	21.25	32.05
815	84	Brick	25.65	20,905	.....	28.60
		Rein.-concrete	26.15	21,312	.....	28.42
		Precast	23.00	19,479	19.50	28.50
2,424	78	Brick	22.75	55,146	.....	27.70
		Rein.-concrete	23.45	56,843	.....	25.18
		Precast	20.60	49,934	19.25	26.50
1,948	72	Brick	19.05	37,109	.....	19.00
		Monolithic	16.80	32,726	.....	15.72
		Precast	16.38	31,908	17.25	18.45
3,288	63	Brick	12.35	40,607	.....	16.23
		Monolithic	11.30	37,154	.....	15.73
		Precast	11.75	38,634	14.10	16.85
4,392	60	Brick	11.75	51,606	.....	16.55
		Monolithic	11.45	50,288	.....	16.15
		Precast	11.75	51,606	13.15	17.50
1,327	57	Brick	12.35	16,388	.....	15.17
		Monolithic	11.05	14,663	.....	14.10
		Precast	11.75	15,592	11.00	15.70
1,670	54	Brick	11.35	18,955	.....	16.30
		Monolithic	10.05	16,784	.....	15.51
		Precast	10.65	17,786	11.65	17.32
1,634	51	Brick	11.35	18,546	.....	14.30
		Monolithic	9.00	14,706	.....	13.40
		Precast	9.95	16,258	10.10	15.58
4,268	48	Brick	11.70	49,936	.....	12.25
		Monolithic	8.90	37,985	.....	11.30
		Precast	9.90	42,253	10.20	12.53
461	45	Brick	12.00	5,532	.....	12.20
		Monolithic	11.65	5,371	.....	11.35
		Precast	10.40	4,794	10.30	12.70
622	42	Brick	8.40	5,225	.....	10.15
		Monolithic	7.95	4,945	.....	9.33
		Precast	7.60	4,727	8.60	10.40
690	39	Brick	6.30	4,347	.....	10.53
		Monolithic	7.50	5,175	.....	10.37
		Precast	7.65	5,278	8.60	11.10
542	36	Brick	5.25	2,845	.....	8.10
		Monolithic	6.70	3,631	.....	7.74
		Precast	6.65	3,604	7.40	8.74
100	33	Brick	4.40	440	.....	6.42
		Monolithic	5.85	585	.....	6.22
		Precast	6.05	605	7.15	6.83
802	27	Vitrified	6.20	4,972	.....	7.63
		Precast	4.40	3,529	5.60	6.71
824	24	Vitrified	4.55	3,749	.....	5.42
		Precast	4.15	3,420	4.90	5.82

MISCELLANEOUS ITEMS

	A		B	C
	Per Foot	Amount	Per Foot	Per Foot
28,447 cu.yd. excav.	$0.17	14,836	$0.40	$0.23
300 cu.yd. loose rock excav.	2.50	750	2.25	.95
1,400 cu.yd. rock excav.	3.00	4,200	4.25	2.71
543 cu.yd. rein.-conc. structures	22.15	12,027	25.00	17.09
130 storm manholes	49.10	6,383	70.00	50.85
2,770 ft. curb replace	1.00	2,770	1.10	1.00
47,210 cu.yd. macadam	.32	15,107	.43	.43
12,500 sq.yd. oiling	.18	2,257	.28	.24
600 ft. wood piling	1.00	600	1.20	1.22

CONSTRUCTION NEWS

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Some of the Week's Large Projects

For further details turn to appropriate sections in this issue

Location	*Project*	*Cost*	*Status*
Waterworks			
San Diego (Calif.)	Storage dam, etc	$3,225,000	Proposed
Streets and Roads			
Wisconsin	Highways	1,869,580	Proposed
Ontario	Road improvements	3,000,000	Day labor
Dams			
Iowa	Dam	1,000,000	Proposed
Subways and Tunnels			
Baltimore	Railroad tunnel	1,500,000	Contract
Waste Disposal			
Boston	Garbage and refuse disposal	3,780,000	Contract
Sports and Parks			
Corpus Christi (Tex.)	Resort centre	20,000,000	Proposed
Unclassified			
Chicago	Telephone improvements	7,000,000	Proposed
Shops and Foundries			
Altoona (Pa.)	Shops	1,500,000	Proposed
Power Plants			
Corinth (N. Y.)	Hydro electric development	15,000,000	Proposed
Medford (Ore.)	Power plants	1,000,000	Proposed
Buildings			
Pittsburgh	Church	1,000,000	Proposed
Brooklyn	Hospital	2,137,203	Contract
Kansas City (Mo.)	Court house	3,500,000	Proposed
Brooklyn	High school	3,000,000	Proposed
Brentwood (N. Y.)	Recreation hall, etc	1,800,000	Proposed
New York	Marine training base	1,000,000	Proposed
Austin (Tex.)	University	3,275,000	Bids asked
Maplewood (N. J.)	Community centre	1,000,000	Proposed

WATERWORKS

PROPOSED WORK

Calif., San Diego—City Council bids probably in January, storage dam to be 190 ft. above stream bed, on San Diego River at El Capitan, incl. 850,000 cu.yd. rock embankment, 1,550,000 cu.yd. hydraulic fill, 200,000 cu.yd. excav. for bed rock. $3,225,000. H. N. Savage, City Hall, engr. Noted Dec. 31.

Calif., Torrance—City Council 6 m.g. rein.-con. reservoir, three 16 in. diam. wells, 250,000 gal. steel tank and tower, 35 mi. 6- to 16-in. c.i. pipe lines. F. B. Leonard, city engr.

Ind., Michigan—Bd. Waterworks issued $30,000 bonds, new reserve pump, mains. Address City Clerk.

Okla., Tulsa—City Council, E. Logan, aud., 500 m.g. rein.-con. reservoir. $30,000. H. A. Parker, City Hall, engr.

Pa., Bedford—City Council, bids about February, reservoir. $120,000. For 7,000 ft. 8 in. pipe line, day labor. C. C. Lee, consult. engr. Noted June 26.

Utah, Ogden — For 33 m.g. open concrete lined reservoir, at Weber Bowl. $105,511. J. C. Brown, city engr.

Vt., Montpelier—Central Vermont Pub. Serv. Co., Montpelier, enlarging Sugar Hill Reservoir at Goshen. $15,000 or more. H. K. Barrows, 6 Beacon St., Boston, Mass., engr.

Alta., Calgary—City, flood control gates for Glenmore Dam. $25,000. A. S. Chapman, city engr.

Ont., Toronto — Scarborough Twp., 12 in. c.i. main to East York Twp. boundary line. $80,000. Work will probably be done by day labor. E. M. Baird, Township Offices, Kingston Rd., Burch Cliff, engr.

BIDS ASKED

Mass., Waltham—See "Contracts Awarded."

Minn., Bemidji—Jan. 18, by City, B. Denley, clk., 1 m.g.d. underground water supply, complete with pumps.

Minn., Minneapolis—See "Contracts Awarded."

Minn., Minneapolis—Jan. 20, by F. S. Gram, city purch. agt., 33,471 ft. 32- to 44-in. steel mains between France and 18th Aves. S., mainly in 40th and 43rd Sts. $600,000 bonds authorized. N. W. Elsberg, city engr. Noted Dec. 30 Daily.

N. Y., Long Island City—Jan. 12, by J. J. Dietz, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Watjean Court, Reads and 65th Lanes, Loretta, Point Breeze and Waterloo Pls., Norton, 25th and 45th Drs., Caffrey, Cornaga, Edgemere, Elvira, Frisco, Healy, Mott, Plunkett, Westboure, Calamus Maurice, 62nd and 68th Aves., Bayswater, Dunbar, President, Sage, Beach 29th, 23rd, Manse, Nansen, Rust, Selfridge, 61st 76th, 79th and 95th Sts.

Neb., Scotia—Jan. 18, by E. L. Kokes, city clk., 80 ft. gravel treated well with concrete or iron casing and screen.

Pa., Lancaster—Jan. 14 (extended date), by F. W. Metzger, mayor, City Hall, rapid sand filtration plant, raising dam, screen house, creek crossings, lining and covering clear water reservoir, other waterworks improvements. J. N. Chester Engineers, 717 Liberty Ave., Pittsburgh, engrs.; adv. E. N.-R. Jan. 7. Noted Dec. 17.

Ont., Oakville—See "Contracts Awarded."

Ont., Oshawa—See "Contracts Awarded."

Ont., Toronto—See "Contracts Awarded."

CONTRACTS AWARDED

Ariz., Mesa—Watermain, sanitary sewers in North and South Mesa Blvd., Mahoney, West 1st St. and Dana Aves., to Arizona Concrete Co., 1724 Grand Ave., Phoenix, $41,005. Work started about Dec. 5. Noted Oct. 29.

Ariz., Prescott—City, 2 Ambursen dams, one on Banning Creek and other on Hassa Yampa Creek, for city's waterway, to Ambursen Dam Co., Alexander Bldg., San Francisco, Calif., $165,000. Est. $200,000. Contract is conditional on Supreme Court holding contract with Ambursen Dam Co. valid to furnish all plans and construct dams. Noted June 18.

Mass., Waltham—City, extending watermains, sewers, not incl. standpipe, Cedarwood to Prospect Hill Dist., day labor. $50,000.

Neb., Lincoln—For 12 in. c.i. mains in 18th St., to A. A. Dobson & Co., 824 1st Natl. Bank Bldg., $30,530; 1 Dayton-Dowd manual control pump, 2,000 g.p.m., to Industrial Sales Co., Inc., 414 Baum Bldg., Omaha, $3,498.

N. Y., Long Island City—J. J. Dietz, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in 1st St., to Atlas Water Wks. Co., Huntley Ave., $1,550; 173rd St. and Grand Central Parkway, to S. Gallucci Bros., 33 Railroad Ave., Corona, $6,251. Noted Dec. 17.

Pa., Bedford—See "Proposed Work."

Pa., Pittsburgh—Bd. P. Wks., c/o E. G. Lang, dir., City-County Bldg., mains in connection with Brilliant Pumping Station, to J. F. Casey Co., Aspinwall St., $18,650. Noted Sept. 17.

Wash., Seattle—Bd. P. Wks., overflow pipe line from West Seattle Reservoir and West Seattle low service tanks, to F. Arcorace, 8423 48th Ave. S., $52,060 (prop. No. 8, welded steel and rein.-con. pipe). Noted Dec. 8 Daily.

Ont., Oakville — Town Council will construct 9,000 ft. c.i. main, to Red Hill Dist., also 350,000 imperial gal. rein.-con. reservoir, day labor. $20,000-$25,000. R. Smith, Oakville, engr. Noted Nov. 19.

Ont., Oshawa—City, 2,300 ft. 4 in. and 6,235 ft. 8 in. c.i. mains, valves, hydrants, connections, day labor. $29,000. F. B. Goedike, City Offices, engr. Noted Dec. 17.

Ont., Toronto—For 6 in. c.i. mains in Eglinton Ave., 12 in. c.i. mains on Basin, Bouchette, Commissioners, Leslie and Saulter Sts., day labor, $50,000. R. C. Harris, City Hall, engr.

Ont., Woodstock—City, pumphouse on Bexley St., to T. J. Bezley, 230 Wellington St. N. Est. $15,000.

SEWERS

PROPOSED WORK

Ill., Harrisburg—City Council, sanitary sewerage system, $353,000, storm sewers $170,700, also sewage disposal plant. Project postponed. Russell & Axon, 4903 Delmar Blvd., St. Louis, Mo., engrs. Noted Dec. 31.

Ia., Cedar Rapids—City Council authorized purchase material to construct sanitary sewer in Mound Farm Section. $25,000.

Mich., Elk Rapids—Francis Eng. Co., engrs., Saginaw, bids in July, sewage disposal plant building, interceptor sewer, pump house, 2 sewage pumps.

Minn. Rochester — Rejected bids Nov. 30, trunk line sewer. $100,000. Noted Nov. 5.

N. J., Highland Park—Boro 2 story sewage disposal plant. $200,000. R. P. Wilson, boro engr.

Okla., Elk City—Preliminary plans new sewage disposal plant. $40,000. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Tex., Dallas—City, c/o E. Goforth, secy., to have surveys and estimates prepared sanitary sewers as follows: Highlands Addition $18,200, Lincoln-Ervay Cedar-Ideal Addition $54,240, Flanders Addition $12,470, West Dallas (partial) $53,900, Fleming Ave. Dist. $13,350, Metropolitan-Myrtle to Rankin $7,400. O. H. Koch, dir. P. Wks.

Tex., Dallas — City, c/o E. Goforth, secy., plans and specifications to be ready by Mar. 1, Cedar Springs storm sewer project, $56,000; storm sewers in connection with Dallas Branch storm sewer outlet ditch project, and in connection with Lower Peaks branch storm sewer below junction 1, $339,000; storm sewer in connection with East Fork Peak's Branch above Fair Park, $175,000; storm sewer in connection with Mill Creek Dist. outlet storm sewer, $450,000. Noted July 23.

Tex., Houston—Sewage disposal plant, $850,000 election soon for same. J. M. Nagle, city engr.

Tex., Tyler—H. L. Thackwell, consult. engr., Jacksonville, preparing plans sewage disposal plant for City. $90,000.

Ont., Niagara Falls—Council, trunk sewer, $300,000. Wynne Roberts Son & McLean, 1311 Metropolitan Bldg., Toronto, engrs.

Ont., Ottawa—City Council, completing Bolton Street Section of relief sewer, incl. concrete or vitr. tile pipe. Work will probably be done by

See proposal advertising on page 130

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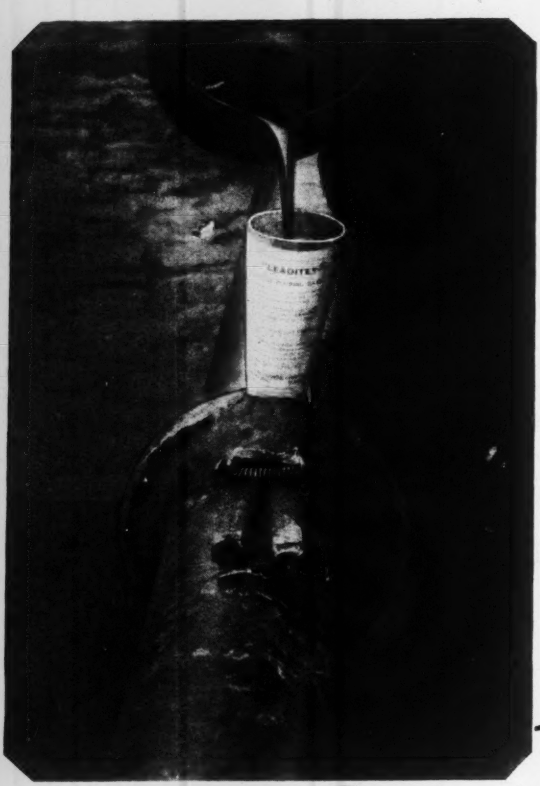

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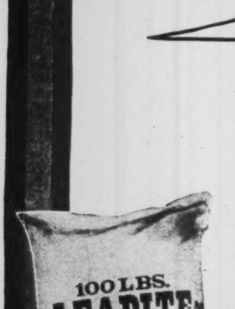
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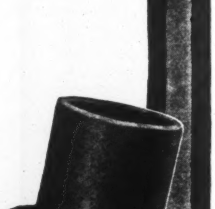

Sewers (Continued)

day labor. $25,000. F. C. Askwith, Ci[illegible] engr.

Ont., Welland—Crowland Twp., concre[illegible], [illegible]n.-con. sewage disposal plant, sluice gates, valves, piping. $40,000. Ross & Scott, 89 East Main St., engr.

BIDS ASKED

Ala., Birmingham—C. J. Rogers, engr. Jefferson Co., Birmingham, bids about Jan. 15, sewage disposal plant at Ensley, for Jefferson Co., W. D. Bishop, chn. Bd. Comrs., Birmingham. $225,000. Noted Aug. 6.

Conn., Greenwich—Mar. 15, by Town, P. L. Minor, comr. of Roads, concrete drain, Main St. $50,000. S. E. Minor & Co., Smith Bldg., engrs.

Ill., Chicago—Jan. 21, by J. J. Sullivan, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., furnishing, constructing sludge filtrating and drying unit with sludge concentration tank 35 ft. diam., 15 ft. deep, with mechanical thickening mechanism, vacuum type filter complete, vacuum sludge pumps, 96 in. rotary dryer, 70 ft. long, complete with stoker, brick, settling conveyors, coal and ash handling equipment, piping, auxiliary apparatus and equipment, also furnishing, constructing 52 x 110 ft. steel frame, corrugated sheet iron building, 40 ft. high, for same in Stickney.

Ind., Winchester—Jan. 15, at office B. E. Hinshaw, city clk., intercepting and connecting sewerage system, sewage treatment plant. C. H. Hurd, 307 Mutual Insurance Bldg., Indianapolis, consult. engr.; adv. E. N.-R. Jan. 7. Noted Oct. 29.

N. Y., Jamestown—See "Contracts Awarded."

N. Y., St. George—Jan. 13, by J. A. Lynch, pres. Richmond Boro, Boro Hall, sewers in School Rd., Summer and Walnut Sts.

R. I., Newport—See "Contracts Awarded."

Pa., Forest Hills—Jan. 13, by E. S. Smull, boro secy., 213 Cascade Rd., 1.5 mi. terra cotta sewers, appurtenances, connections to existing sewers in Dist. 3, Braddock Boro and Glasgow Rd. A. Hutchison, 608 South Ave., Wilkinsburg, engr.

S. D., Sioux Falls—See "Contracts Awarded."

CONTRACTS AWARDED

Calif., Santa Ana—See "Streets and Roads."

Ill., Chicago—Bd. Local Impvts., City Hall, drains in Foster, North Merrimac, Oconto and Octavia Aves., to Angelo Santucci, 619 South Ashland Ave.

Md., Baltimore—Bd. Awards, 1 story, 53 x 92 ft., brick, architectural terra cotta and limestone, mechanical screen building, Contr. 277, Back River, to D. M. Andrew Co., Sisson and 26th Sts. $33,540. Noted Dec. 31.

Minn., St. Paul—C. A. Carlson, city purch. agt., constructing Kittsondale Sewer, Western Branch Contr. C, to Feyen Constr. Co., 277 Burgess St., $46,200. Noted Dec. 10.

New York—Westchester Co. Sanitary Sewer Comn., Court House, White Plains, Sect. L, Sawmill Project, to Driscoll & DiSandri, Phila., Pa., $250,000; Sect. P, to Clemente Contg. Co., 1195 Spofford Ave., New York, $218,000; Sect. D, to Merritt, Chapman, Scott, 17 Battery Pl., New York, $158,114; Sect. B, to J. Passaro & Sons, Marble Ave., Pleasantville, $140,900; Sect. E, to Northern States Contg. Co., 312 Endicott Bldg., St. Paul, Minn., $68,497; connecting chamber, to Garafino Constr. Co., 708 South Columbus Ave., Mount Vernon, $22,795. Grand total $858,306. Noted Dec. 3.

N. Y., Jamestown—City Council, sewer construction, day labor. $60,000.

N. Y., Long Island City—G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., sewers in 59th Rd., to R. Nazzaro, 7101 11th Ave., $4.617. Noted Nov. 26.

N. Y., Long Island City—G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., to L. Sangiovanni, sewer in Polo Pl. $734, 245th St. $1,233, 107th Ave. $755, on Farmers Blvd. $1,457, Dix Ave. $793. Grand total $4,972. Noted Dec. 3.

N. Y., Long Island City—J. J. Halleron, acting pres. Queens Boro, Queens Subway Bldg., sewers in 71st and 217th Sts., to Trifoglio Constr. Co., $5,190 and $1,349 respectively, 98th St. and 84th Ave., to Matarazzo & Yondola, 1163 61st St., Brooklyn, $21,044 and $219 respectively; 84th Dr., Edward and 158th Sts., to Marmoth Constr. Co., 94-14 108th Ave., Jamaica, $25,079; 45th Ave., to Kennedy & Smith, Bradford Ave., Flushing, $1,578; Edmore Ave., to J. and J. Contg. Co., $964; 115th Ave. and 103rd St., to P. Ambrosio, $5,576 and $6,623 respectively; Barron St., to R. Tomassetti, 1074 60th St., Brooklyn, $2,182. Grand total $69,804. Noted Dec. 24.

O., Cleveland—For 910 ft. 3 ft. 6 in. to 5 ft. circular brick sewer in Bucyrus Ave., from Pearl Rd. to West 42nd St., to Galuppo Constr., 989 Stevenson Rd., $10,803; intercepting sewer connection, East 79th and East 80th Sts., incl. 461 ft. 5 ft. circular E-brick sewer, 625 ft. c.i. pipe, 3,800 cu.yd. 18 in. D. S. pipe, to Amato Constr. Co., 3610 East 101st St., $29,473.

R. I., Newport—City, Sewerage System, Sect. 2, incl. 2 pumping stations, 1 ejector station, pipe, manholes, settling tank in Broadway and Spring Sts., day labor. $186,000. J. A. Openshaw, City Hall, comr. P. Wks.

S. D., Sioux Falls—City, 10,000 lin.ft. 12- to 42-in. storm sewers, day labor and force account. Est. $50,000. R. E. Bragstad, city engr. This corrects report in Dec. 31 issue.

Ont., Hamilton—City, 8 in. and up vitr. tile sewers in Broadway Ave. $11,180, Clifford St. $7,012, Bowman St. $4,720, Willow Crest Ave. $5,940, Royal Ave. $6,020, day labor. Grand total $34,872. W. L. McFaul, City Hall, engr.

WASTE DISPOSAL

BIDS ASKED

Ont., Toronto—See "Contracts Awarded."

CONTRACTS AWARDED

Mass., Boston—City awarded contract disposal of garbage and refuse for period of ten years from July 1, 1932, to Brooklyn Ash Removal Co. of Massachusetts, c/o Brooklyn Ash Removal Co., 26 Court St., Brooklyn, N. Y.,

Ont., Toronto—City Council remodelling garbage destructors, brick, concrete, steel, incinerating equipment, repairs, replacements, largely by day labor. $90,000. A. C. Harris, City Hall, engr.

BRIDGES

PROPOSED WORK

Calif., Sorrento—San Diego Co., Court House, San Diego, 10 span 300 ft. rein.-con. bridge, 40 ft. wide at northern entrance to city. $50,000. E. R. Childs, Court House, San Diego, engr.

Michigan—W. J. Kingscott, div. engr., 213 Watson Bldg., Grand Rapids, cancelled bids to have been opened Dec. 17, MBR. 1 of 8-14-11. Contrs. 2 and 3, two 75 ft. spans, 2 semi-gravity type rein.-con. abutments, steel deck girder, rein.-con. flooring, concrete wearing surface, 40 ft. roadway, two 2½ ft. sidewalks, Barry and Kent Counties, for State Hy. Comn., Lansing. Noted Dec. 3.

Rhode Island and Connecticut—Rhode Island State Bd. P. Roads, Providence, Connecticut State Hy. Dpt., Hartford, bridge over Pawcatuck River, between Westerly, R. I., and Stonington, Conn. To exceed $25,000.

Tex., Lipscomb—Hy. Comn., W. R. Ely, chn., Austin, plans 2 rein.-con. bridges, 1 over Reowa Creek and other over Sand Creek on Hy. 117. G. G. Wickline, Austin, bridge engr.

Ont., Toronto—City Council and Canadian National Rys., Montreal, Que., C. S. Gzowski, ch. engr., 500 ft. concrete, steel bridge over railroad. $128,000. R. C. Harris, City Hall, engr.

BIDS ASKED

Mo., St. Louis—Jan. 19, by Bd. P. Serv., City Hall, timber for decking double track railroad on St. Louis Municipal Bridge and approaches; constructing founds., rein.-con. piers, abutments, retaining walls, approach fill, for St. Louis Union Depot Approach to St. Louis Municipal Bridge. Noted Sept. 17.

Virginia—See "Streets and Roads."

CONTRACTS AWARDED

California—State Hy. Comn., Sacramento, replacing 100 ft. timber trestle and truss with five 40 ft. span rein.-con. girder bridge on concrete pile bents, 24 ft. roadway, over Canyon Creek, other 320 ft. span with six 46½ to 49½ to J. Berlinger, Box 396, Orland, $19,269; 2 open spandrel arch rein.-con. bridges with 24 ft. roadway, one 320 ft. span with six 29½ to 51½ ft. girder approach spans over Big Dann Creek, ohter 320 ft. span with six 46½ to 49½ ft. girder approach spans over Cedar Creek, both 7.5 mi. south of Lanes Flat, Mendicino Co., to Gutleben Bros., 4815 Calaveras Ave., Oakland, $208,248. Noted Dec. 10.

Calif., San Francisco—C. H. Purcell, ch. engr. San Francisco-Oakland Bay Bridge, 500 Sansome St., test borings for founds. of San Francisco approach to San Francisco-Oakland Bay Bridge, to M. B. McGowan, Inc., 74 New Montgomery St., $18,500. Noted Dec. 10.

Illinois—State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, to F. D. Hayes Co., Janesville, Wis., 2 rein.-con. slab and 1 rein.-con. girder bridges, Stephenson Co., $25,890; 2 rein.-con. slab and 2 rein.-con girder bridges, Stephenson and Carroll Conties, $23,397—to McGrath Constr. Co., Napersville, three 40 ft. span rein.-con. girder and 1 rein.-con. slab bridges, Marshall Co., $24,.740—to A. Culbertson, Oconee, 1 rein.-con. girder and 1 rein.-con. slab bridges, Montgomery Co., $11,332—to Vincennes Bridge Co., Vincennes, Ind., fifteen 43 ft. steel I-beam approach spans on concrete piles, 100 ft. steel superstructure, Jefferson Co., $43,390; 2 steel superstructures, Williamson Co., $22,143—to Alumbaugh-Sisson & Hockstetler, Sullivan, Ind., 2 rein.-con. substructures with four 50 ft. rein.-con. girder approach spans, Williamson Co., $34,969—to J. Schmidt, 701 Heading Ave., Peoria, 140 ft. steel truss bridge, Peoria Co., $22,833—to Clinton Iron Wks., Clinton, Ia., Dry Run Creek Bridge, Swords Ave., Peoria, $6,095. Grand total $214,789. Noted Nov. 12.

Indiana—State Hy. Comn., Indianapolis, 52½ ft. concrete bridge near Auburn, Contr. 452 De Kalb Co., to General Dredging Co., 2,589 Taylor St., Ft. Wayne, $6,239, est. $9,302—concrete, steel bridge, Contr. 458, to Burk Garrard, Montazoma, $10,957, est. $14,891—concrete, steel bridge, Contr. 459, to Columbia Concrete Corp., Lafayette, $13,257, est. $18,278, both Fountain Co.—one 32 ft. and two 28 ft. rein.-con. girder bridges, extending 1 span 28 ft. rein.-con. girder bridge, Contr. 448, Putnam and Hendricks Counties, to C. E. Garrard, Montazoma, $10,987, est. $14,891—2 concrete, steel bridges, Contr. 456, Washington Co., to R. P. Olinger, Huntingburg, $29,600 est. $43,910. Grand total $72,140. Noted Dec. 10.

Ia., Logan—Harrison Co., constructing 105x16 ft. high truss bridge with two 24 x 16 ft. I-beam approach spans, and 90 x 16 ft. pony truss bridge with one 20 x 16 ft. and one 28 x 16 ft. I-beam approach spans, to Wickham Bridge & Pipe Co., 1905 West Bway., Council Bluffs, $10,200; furnishing lumber, to E. S. Gaynor, Sioux City, $24,000, hardware, to Shannon Hardware Co., 133 North Wacker Dr., Chicago, $8,000; paint, to John Lucas & Co., Inc., 1362 West 37th St., Chicago, Ill., $600. Grand total $35,600. 5,000 ft. corrugated culvert pipe, to A. N. Eaton Metal Products Co., 1301 Willis Ave., Omaha, Nebr. Noted Oct. 1.

Me., Biddeford—Saco-Lowell Shops, 147 Milk St., Boston, Mass., substructure, 2 piers, approaches, concrete bridge, to F. W. Fleming, Scarboro.

Me., Carmel—State and Maine Central R.R., Portland, A. H. Merrill, ch. engr., Portland, rebuilding substructure bridge, to Wyman & Simpson, 284 Water St., Augusta. Est. $40,000. Noted Dec. 10.

Maryland — State Roads Comn., G. C. Uhl, chn., Baltimore, double span concrete girder bridge on Mt. Ranier-Queen's Chapel Rd. on Prospect Ave., over Northwest branch, Contr. P-191-37, Prince George's Co., to Victor A. Pyles Co., 527 Chesapeake Ave., Baltimore, $10,146. Noted Sept. 24.

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, triple span, concrete arch bridge over Sligo Branch, on Carroll Ave., Takoma Park, Contr. M-199-37, Montgomery Co., to Jarboe & Haughton, Mechanicsville, $39,637. Noted Dec. 17.

Mass., Littleton—See "Grade Crossings."

Michigan—H. G. Oakes, div. engr., Plymouth, 1 span 75 ft. steel deck girder bridge, 2 rein.-con. abutments, counterfort type, 40 ft. roadway, two 6 ft. sidewalks over Mill Creek, Washtenaw Co., for State Hy. Dpt., Lansing, Contr. 2, to Fort Pitt Bridge Wks., Massillon, O., $4,346; Contr. 3, to Atletwed & Gager, Dexter, $29,263. Noted Dec. 3.

Michigan — J. T. Sharpensteen, div. engr., Escanaba, Federal Bridge 2 of 21-8-21, Contrs. 2 and 3, incl. three 60 ft. spans, steel deck girder, 2 rein.-con. abutments, 30 ft. roadway, two 2.5 ft. sidewalks, over Ford River, Delta Co., for State Hy. Dpt., Lansing, Contr. 2, to Fort Bridge Wks., Massillon, O., $6,430; Contr. 3, to Bano Constr. Co., Iron Mountain, $23,491. Noted Dec. 3.

Michigan—A. L. Burridge, div. engr., Cadillac, FBr. 1 of 35-2-11, Contr. 3, 2 rein.-con. counterfort type abutments, Iosco Co., for State Hy. Comn., Lansing, $29,525. Noted Dec. 10.

Michigan—W. J. Kingsscott, div. engr., 213 Watson Bldg., Grand Rapids, M. Br. 1 of 78-2-20, three 33 ft. steel deck girder spans, remodeling 2 gravity type masonry abutments and 2 skeleton type rein.-con. piers, 30 ft. roadway, two 5 ft. sidewalks, St. Joseph Co., for State Hy. Comm., Lansing. Contr. 2, to Whitehead & Kales Co., Detroit, $2,773; Contr. 3, to Kalamazoo Constr. Co., Kalamazoo, $8,916. Noted Dec. 14 Daily.

Michigan—H. W. Hagaman, div. engr., Flint, State Reward Bridge 1 of 25-11-21, Contrs. 2 and 3, incl. three 65 ft. steel girder spans, 2 counterfort type rein.-con. abutments, 30 ft. roadway, two 2.5 ft. sidewalks over Flint River, Genesee Co., for State Hy. Comn., Lansing, C-2, to McClintic Marshall Corp., 1242 Book Bldg., Detroit, $6,790; C-3, to E. C. Nolan & Son, Detroit, $27,971. Noted Dec. 3.

Michigan—H. G. Oakes, div. engr., Plymouth, **(a)** F.Br. 2 of 58-1-1, two 45 ft. spans, widening 2 rein.-con. semi-gravity type abutments, steel deck girder rein.-con. flooring, 40 ft. roadway, two 2½ ft. sidewalks over Big Swan Creek, **(b)** F.Br. 1 of 58-1-1, 35 ft. span, 2 rein.-con. abutments, semi-gravity type, steel deck grider, rein.-con. flooring, 40 ft. roadway, two 2½ ft. sidewalks, over Little Swan Creek, both in Monroe Co., **(c)** M.Br. 1 of 46-11-18, 55 ft. span, 2 rein.-con. counterfort type, steel deck girder, 40 ft. roadway, 2½ and 6 ft. sidewalks over Raisin River, **(d)** grading, shaping, drainage structures, concrete paving 0.161 mi. MO46-19C-3, both in Lenawee Co., for State Hy. Dpt., Lansing, to Whitehead & Kales Co., Detroit, **(a)** Contr. 3 $3,064 **(b)** Contr. 3 $1,142—to W. H. Knapp Co., Monroe, **(a)** Contr. 4 $9,184 **(b)** Contr. 4 $4,266—to Fort Pitt Bridge Wks., Massillon, O. **(c)** Contr. 2 $2,278—to Harwick Bros. & Brown, Petersburg, **(c)** Contr. 3 $17,075 **(d)** Contr. 3 $8,579. Grand total $45,588. Noted Dec. 3.

New Jersey—State Hy. Comn., Trenton, Back Creek Bridge, Mercer Co., to Kolyn Constr. Co., 209 Commonwealth Bldg., Trenton, $54,990; bridge over Freehold and Jamesburg R.R., Monmouth Co., to Seacoast Iron Wks., Red Bank, $27,300. Noted Dec. 17.

New York—Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, bridges on Saw Mill River Parkway, Newcastle, to H. F. and T. Constr. Co., Mount Vernon, $42,326. Noted Nov. 19.

Ohio—O. W. Merrell, dir. Hys., Columbus, concrete slab bridge over Lindecamp Run, 24 ft. roadway, 2 concrete box culverts, Ashland Co. to R. W. Rankin, Ashland, $8,136—one 25 ft. span and two 20.5 ft. span, concrete slab bridge over Indiana Creek 24 ft. roadway, Sect. "A" Versailles-Western Rd., Darke Co., to J.

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Bridges (Continued)

Frantz, Sidney, $12,959—concrete slab bridge, 5 concrete culverts, Wood Co., to McKechnie Peirce Co., 112 East Woodruff St., Toledo, $12,144—three 35 ft. span concrete beam bridge, 24 ft. roadway, over East Fork Little Miami River, Brown Co., to Sheesley & Jenny Constr. Co., Johnstown, Pa., $16,474—50 ft. span, concrete beam bridge, 24 ft. roadway, over Mosquito Creek, Champaign Co., to R. L. Wheelock, Dayton, $13,126—two 40 ft. span concrete beam bridge, 24 ft. roadway, over Painters Creek, Sect. "G" Greenville-Milton Rd., Darke Co. and two 32 ft. span bridge, 24 ft. roadway, over Trotten Creek, Miami Co., to W. T. Townsend, Greenville, $11,432 and $11,819 respectively—55 ft. span concrete beam bridge, 29 ft. roadway, over Chappel Creek, Erie Co., to R. E. Carey Co., 1466 West 112th St., Cleveland, $13,018—three 55 ft. span concrete beam bridge, 29 ft. roadway and two 3 ft. sidewalks, over Wills Creek, Guernsey Co., to C. C. Dodd, Spencer, W. Va., $38,796—three 45 ft. span concrete beam bridge, 30 ft. roadway, one 4 ft. sidewalk, over Cross Creek, Jefferson Co., to Standard Eng. & Constr. Co., Pittsburgh, Pa., $28,753—three 30 ft. span concrete beam bridge, 24 ft. roadway, over Little Scioto River, Marion Co., to Green & Sawyer Co., Lima, $18,789—two 5 ft. span concrete beam bridge, 24 ft. roadway, over Mahoning River, Stark Co., to Indiana Eng. & Constr. Co., 109 North Union St., Akron, $14,452—75 ft. span concrete bridge, with steel beams, 24 ft. roadway, two 4.5 ft. sidewalks, over Salt Creek, Pickaway Co., to Tarlton, Stout & Harden, Stoutsville, $11,470—35 ft. span creosoted timber bridge, steel stringers, 24 ft. roadway, over Newman Run, Warren Co., to Oregonia Bridge Co., Lebanon, $11,302—two 33 ft. span creosoted timber bridge, 30 ft. roadway, over Buck Run, Butler Co., to Pringle Constr. Co., Batavia, $11,795—extending concrete arch bridge, one 50.5 ft. span and one 50.33 ft. span, 44 ft. roadway, over Black Lick Creek, Franklin Co., to Middle States Constr. Co., 1183 Essex Ave., Columbus, $16,705. Grand total $251,170. O. W. Merrell, dir. hys., Columbus, cancelled bids to have been opened Dec. 29, for 65 ft. span, concrete bridge, 35.3 ft. roadway, over Mad River, Sect. "N" Springfield National Rd., Clark Co., $43,034—55 ft. span concrete bridge, steel beams, 29 ft. roadway, two 2.5 ft. sidewalks, over Lyttle Creek, Clinton Co., $16,902—21 ft. concrete slab bridge over Meander Creek, 67.5 ft. roadway, 2 culverts, grading, Sect. "N" Akron-Youngstown Rd., Mahoning Co., $26,124. Noted Dec. 24.

Pa., Pittsburgh—R. G. Woodside, controller, Allegheny Co., Court House, additional superstructure for West End-North Side Bridge over Pittsburgh and West Virginia R.R. property, to McClintic Marshall Co., Oliver Bldg., $58,349. Noted Dec. 10.

Pa., Pittsburgh—R. G. Woodside, controller Allegheny Co., Court House, hand railing and lamp poles for George Westinghouse Bridge over Lincoln Hy., to Pressed Steel Car Co., Farmers Bank Bldg., $30,122; granite pylons, for same, to S. M. Siesel Co.; Flannery Bldg., $89750—repaving portion 2nd Ave. approach to Glenwood Bridge 8 over Monongahela River, to M. O'Herron Co., South 1st and McKean Sts., $6,923—removing Bridge 10 Montour Run and re-erecting at Bridge 4, Deer Creek, with approach filling, removing, disposing of Bridges 1 Montour Run and 4 Deer Creek, to J. F. Kunz, South Braddock, $3,670. Grand total $130,465. Noted Nov. 27.

South Dakota and Nebraska—Nebraska-Dakota Bridge Corp., c/o A. B. Wilder, 724 Washington Ave. S.E., Minneapolis, Minn., steel, concrete toll bridge over Missouri River, between Running Water, S. D. and Niobrara, Neb., to J. W. Shaffer & Co., 1000 Phoenix Bldg., Minneapolis, Minn., and Industtrial Contg. Co., 3050 4th Ave. So. Minneapolis, Minn., est. $600,000.

Utah, Salt Lake City — City Comn., 3 span 180 ft. steel, concrete bridge over Denver & Rio Grande R.R., to E. Chyrraus & Son, Salt Lake City, for City and Denver & Rio Grande R.R. Co., A. O. Ridgway, ch. engr., Equitable Bldg., Denver, Colo. $18,058. Est. $30,000. Noted Dec. 10.

Wis., Green Bay—City, substructure 170 ft. bridge at Monroe St., to A. Green Constr. Co., Green Bay, $35,787; superstructure, to Lakeside Bridge & Steel Co., North Milwaukee St., Milwaukee, $65,975.

STREETS AND ROADS

BIDS ASKED

Calif., Glendale—Jan. 14, by City Council, City Hall, improving Glendale Blvd., from Monterey to Verdugo Aves., incl. 6,400 lin.ft. curbing, 11,600 sq.ft. 8 in. concrete guttering, 90,500 sq.ft. 4 in asphaltic concrete base, 172,000 sq.ft. 2 in. asphaltic concrete wearing surface. To exceed $25,000. J. C. Albers, City Hall, engr.

Delaware—Jan. 19, by State Hy. Dpt., Dover, grading, borrow, laying sidewalks, 6,275 ft. Kennett Pike-Greenville Rd. Contr. 239—2,700 ft. Middletown-St. Anne's Church Rd., Contr. 238—1,250 ft. Naamans Creek-Phila., and Pike-Hickman Rds., Contr. 236, all foregoing in Newcastle Co.—5,255 ft. Dover-State College Rd., Contr. 235, clearing, grading, grubbing, concrete paving 2.75 mi. Stockley-Zoar Camp Rd., Contr. 232—1.2 mi. Portsville-Bethel Cut-Off Rd., Contr. 240—3.74 mi. Gum Cross Roads-Middleford, Contr. 229, all foregoing in Sussex Co.—grading 1 mi. Augustinge Bridge-Concord Pike, Contr. 237. New Castle Co.; adv. E.N.-R. Jan. 7.

Ind., Huntington—Jan. 11, by Bd. Comrs. Huntington Co., paving Tipton St. $25,647. C. A. Griffith, Huntington, aud.

Kentucky—Jan. 26, by State Hy. Dpt., **Frankfort**, surfacing 6.1 mi. Wickliffe-Paducah Rd., U. S. Hy. 60, Ballard Co.—12.1 mi. Glasgow-Bowling Green Rd., Barren Co.—14.1 mi. Hopkinsville-Madisonville Rd., U. S. Hy. 41, Christian Co.—8.4 mi. Owensboro-Henderson Rd., Daviess Co.—9.5 mi. Henderson-Dixon Rd., U. S. Hy. 60—9.5 mi. Henderson-Owensboro Rd. from Henderson to Spottsville Toll Bridge—5.8 mi. same road from Spottsville Toll Bridge to Daviess Co. Line, all Henderson Co.—6.9 mi. Clinton-Bardwell Rd., U. S. Hy. 51, Hickman Co. — 11.4 mi. Madisonville-Hopkinsville Rd., U. S. Hy. 41, Hopkins Co.—10.5 mi. Madisonville-Sacramento Rd. (Dutch Fish Trap Rd.), Hopkins and McClain Counties—16.5 mi. Smithland-Marion Rd., U. S. Hy. 60, Livingston Co.—6.9 mi. Russellville-Central City Rd., Logan Co.—15.1 mi. Paducah-Smithland Rd., U. S. Hy. 60, McCracken and Livingston Counties—8 mi. Central City-Russellville Rd., Muhlenberg Co.—9.5 mi. Dixon-Henderson Rd., Webster Co.—grading, drainage structures 3.5 mi. Edmonton-Tompkinsville Rd., Metcalf Co.—3.8 mi. Tompkinsville-Edmonton Rd., Monroe Co.—grading, drainage structures, surfacing 3.5 mi. Franklin-Tennessee State Line Rd., Simpson Co. B. Johnson, chn.

Louisiana—Jan. 13, at office C. H. Purcell, engr. State Hy. Comn., Sacramento, grading, drainage structures, concrete paving 1 mi. road between San Joaquin River and easterly boundary, also constructing 3.5 mi. levees, incl. 20,000 cu.yd. excav., Merced Co.

La., Franklinton — City Council soon takes new bids grading, drainage structures, curbing, concrete paving 11th, Bene, 10th, Hancock, Pearl, Self, Lee and Main Sts. Former bids rejected.

Maryland—Jan. 12, by State Roads Comn., G. C. Uhl, chn., Baltimore, graveling 1.48 mi. Contr. SM-87-84, St. Mary's Co.; adv. E. N.-R. Jan. 7.

Michigan — Jan. 20, by J. T. Sharpensteen, div. engr., Escanaba, grading, drainage structures 4.103 mi. FO7-1C-1, Baraga Co., for State Hy. Comn., Lansing.

Michigan—Jan. 19, by H. G. Oakes, div. engr., Plymouth, grading, drainage structures 4.276 mi. FO13-22C-2, Calhoun Co.; 3.598 mi. MO63-32C-1, Oakland Co., for State Hy. Comn., Lansing.

Michigan—Jan. 20, by A. L. Burridge, div. engr., Cadillac, grading, necessary drainage structures 4.39 mi. F024-22C-1, Emmet Co.—4.305 mi. F065-18C-1 and F065-18C-2, Ogemaw Co.—9.439 mi. F06-20C-1, F06-20C-2 and F06-20C-3, Arenac Co., for State Hy. Comm., Lansing.

Michigan—Jan. 21, by H. W. Hagaman, div. engr., 208 Kresge Bldg., Port Huron, grading, shaping drainage, concrete paving, 12.586 mi. Lapeer Co., for State Hy. Comm., Lansing.

Michigan—Jan. 27, by A. L. Burridge, div. engr., Cadillac, grading, shaping, drainage, concrete paving 1.698 mi. F015-13C-1, Charlevoix Co., for State Hy. Comm., Lansing.

Minnesota—State Hy. Dpt., St. Paul, rejected bids Dec. 22, grading, concrete paving 17 projects. $4,000,000. New bids will be asked. Noted Dec. 10.

Mo., Clayton—St. Louis Co., Court House, bids about Mar. 22, concrete paving 1.0566 mi. Hanley Rd. and 0.29 mi. Hildesheim Ave. Grading for both projects now being done by day labor. R. Jablonsky, co. engr. Noted Nov. 26 and Dec. 24.

Mo., Independence—Jan. 19, by Jackson Co., Court House, rein.-con. paving 4 mi. Sterling Ave. Rd.—2 mi. Ash Ave. Rd.—9 mi. Sugar Creek Rd.—5 mi. Courtney Rd. L. E. Koehler, Court House, co. engr. Stayton & Veatch, 505 Interstate Bldg., Kansas City, consult. engrs.

Mont., Billings — Feb. 16, by City, O. W. Nickey, clk., asphalt, concrete or brick paving 16,500 sq.yd. 28th and 29th Sts., 1st and 2nd Aves. S. $41,000. R. T. Hurdle, city engr.

New York—Jan. 22, by A. W. Brandt, comr. P. Wks., Div. Hys., Albany, grading, structures 8.46 mi. Pompey-Cazenovia Rd., Parts 1 and 2, Madison and Onondaga Counties; adv. E. N.-R. Jan. 7.

N. Y., Brooklyn—Jan. 13, by H. Hesterberg, pres. Brooklyn Boro, Boro Hall, grading, curbing, repaving Flatbush Ave. from Avenues N to U, Knickerbocker and Johnson Aves., Avenue M, East 28th, East 34th, 96th and Cleveland Sts. $122,000.

N. Y., Long Island City—Jan. 11, by G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., grading, curbing, sidewalks, bituminous concrete on concrete from 54th Ave., to grade point 540 ft. west of 57th Ave. and sheet asphalt paving from said point to 57th Ave. in 83rd St.—grading, curbing, sidewalks, sheet asphalt on concrete paving Park Lane, 38th, Hempstead, 48th Aves., 37th, Erickson, 120th, 219th Sts.—grading, curbing, sidewalk on 76th St., 48th, 26th, 33rd, Vanderventer, and 44th Aves.—grading curbing, sidewalks, granite gutter on Christie Ave.; grading, stone gutters, retaining walls, ramps, over aband Creedmoor Branch of Long Island R.R.; tim trestle and other work in Union Turnpike Grand Central Parkway at intersection 137th St. to Winchester Blvd. and from Comm wealth Blvd. to Nassau Co. line.

N. Y., New York—Jan. 12, by H. Bruck pres. Bronx Boro, Crotona Park, 3rd and mont Aves., grading, drains, culverts, proaches on East 242nd St., Layton and Bu Aves.; rein.-con. pipe culvert White Plains

N. Y., St. George—Jan. 13, by J. A. Ly pres. Richmond Boro, Boro Hall, grading Lo Pl. and Cleveland Ave.

Oklahoma—State Hy. Comn., Oklahoma C final plans grading, drainage structures 1 mi. U. S. Hy. 75, south of Kansas State li 32 ft., Craig Co. $30,000. C. L. Wilson, engr.

Oklahoma—Jan. 12, by State Hy. Dpt., Ok homa City, gravel top surfacing 12 mi. State H 7 from Eldorado to Red River, 20 ft., Jacks Co. $25,000—grading, drainage structure 12 State Hy. 70 south of Randlett, 32 ft., $40,0 10 mi. State Hy. 8 from Temple to Walte 32 ft., $35,000, both Cotton Co. C. L. Wils hy. engr.

Virginia—Jan. 12, at office State Hy. Dpt Richmond, clearing, grubbing, grading, drai age structures, gravel surfacing 3.089 mi. Rout 725, Project S-742-AB, Fairfax Co., also brid over 20 ft. span over Dogue Creek, 25,790 lb reinforcing and 47,400 lb. structural steel, 2,48 ft. piling. H. G. Shirley, hy. engr.

Wisconsin—Jan. 12, by State Hy. Comn. and Hy. Coms. Ozaukee and Sheboygan Counties, Madison, Random Lake Grade Separation (approaches only) S.A.P. 2003, S.T.H. 144, Sheboygan Co.; Port Subway Grade Separation (approaches only), S.A.P. 2027, S.T.H., 141, Ozaukee Co.

Wisconsin—State Hy. Comn., Madison, plan highway programs in various counties $1,869,580.

Ontario—See "Contracts Awarded."

Ont., Hamilton—See "Contracts Awarded."

Ont., Sturgeon Falls — Town Council soon takes bids paving. $32,150.

Ont., Whitby—See "Contracts Awarded."

Que., Montreal East — Town Council soon takes bids waterbound macadam paving Durocher St. $56,000.

Que., Plessiville — Town Council soon takes bids sidewalks. $24,000.

CONTRACTS AWARDED

Arizona—State Hy. Comn., Phoenix, clearing, grubbing, grading, bridging 3.5 mi. Benson-Douglas Hy., to C. G. Willis & Sons, 2119 East 25th St., Los Angeles, Calif. $87,703.

California — State Hy. Comn., Sacramento, grading, asphaltic concrete surfacing 8.4 mi. road, 36 and 20 ft., San Joaquin Co., to Hanrahan Co., Hobart Bldg., San Francisco, $136,806. Noted Dec. 10.

Calif., Santa Ana—Grading, curbing, guttering, sewers, moving ornamental lighting standards, water services, sidewalks, 6 in. concrete paving 42,526 sq.ft. 17th St., et al, to Kovacevich & Price, 5400 Imperial Hy., Lynwood, $29,442.

Idaho—Dpt. P. Wks., Salt Lake City, grading, surfacing 5.396 mi. Grace-Preston Hy., Grace and Bannock Counties, to Green River Lumber Co., Green River, Utah, $27,309. Est. $39,283. Noted Dec. 8.

Illinois—State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, to Edwin M. Rocho, Freeport, grading, drainage structures, culverts 0.2 mi. road in Lawrence Co., $13,196—to M. Wunderlich, Jefferson City, Mo., 7.98 mi. Stephenson Co., $81,328—to Littig Constr. Co., 1st Natl. Bank Bldg., Davenport, Ia., 7.26 mi. Stephenson and Carroll Counties, $59,129, 7.68 mi. Knox and Fulton Counties, $54,644—to Central Eng. Co., 809 Putnam Bldg., Davenport, Ia., concrete surfacing 5.96 mi. Mercer Co., $84,377—to John Kinney & Son, East St. Louis, 6.91 in Calhoun Co., $87,430—to A. A. Davis Co., Cotton-Grain Exch. Bldg., Oklahoma City, Okla., grading, drainage structures 6.75 mi. Johnson and Pulaski Counties, $57,622—to E. J. Eiff Co., Quincy, 4.915 mi. Adams Co., $25,107—to C. Stepp, Marshall, 1.65 mi. Clark Co., $1,436—to Hartman-Clark Bros. Co., 920 Peoria Life Insurance Bldg., Peoria, concrete surfacing 4.16 mi. Route 127, Sect. 102 $64,134, 4 mi. Route 127, Sect. 103X, $61,095, both Montgomery Co., 7.62 mi. Shelby, Effingham and Fayette Counties, $82,000; 6.99 mi. Fayette and Effington Counties, $101,747—to Egyptian Constr. Co., Herrin, 5.36 mi. Franklin and Williamson Counties, $102,636—to Cameron-Joyce & Co., Keokuk, Ia., 5.31 mi. Fulton Co., $80,209—to Powers-Thompson Constr. Co., Joliet, 0.72 mi. Will Co., $18,534, to O. Arnold, Casey, 1 mi. Clark Co., $6,670. Grand total. $981,294. Noted Nov. 12.

Ill., Chicago—Cook Co., 535 County Bldg., improving Burnham Ave. Sect. 069-1213, to States Impvt. Co., 160 North La Salle St., $46,811—Harlem Ave., Sect. 039-2121, to Iroquois Constr. Co., 410 South Michigan Ave., $40,587—Halsted St. Sect. 060-0304, to Pranger Constr. Co., $21,785—Wentworth Ave. Sect. 070-203, to G H. Summervill Co. $29,087—Sherman Ave.

Streets and Roads (Continued)

Sect. 42-1316, to Krenn & Dato, 936 North Michigan Ave., $78,654. Grand total $218,724. Contracts awarded Dec. 15.

Ill., Edwardsville — Madison Co., grading, bridges, 6 ft. earth shoulders, concrete surfacing 29,487 sq.yd. State Route 14, Sect. 53, MFT, to H. A. Kribs, Inc., Edwardsville, $69,312. Noted Sept. 3, under "Contracts Awarded."

Indiana—State Hy. Comn., Indianapolis, surfacing 2,375 mi. Rd. 27, Project 299, Adams Co., to Mesberger Bros. Stone Co., Linngrove, $37,591. Est. $49,377. Noted June 11.

Indiana—State Hy. Comn., Indianapolis, grading, drainage structures, concrete surfacing 12.618 mi. Petersburg-Washington Rd., 18 ft., Pike and Daviess Counties, to Middlewest Roads Co., Flint, Mich., $199,492. Est. $253,537. Noted Nov. 12.

Indiana—State Hy. Comn., Indianapolis, grading, drainage structures, expansion joints, rein.-con. bars, concrete surfacing 15,841 sq.yd. Rd. 49, Project 180-A-B1, Porter Co., to M. B. Heiney, Gary, $38,411. Noted Nov. 12.

Kansas—State Hy. Comn., Court House, Council Grove, sand gravel surfacing 3 mi. road in McPherson Co., to L. C. House, $943—6.637 mi. Morris Co., to Orr Constr. Co., Lecompton, $3,916—light type surfacing 3.011 mi. Dickinson Co., to Roberts Constr. Co., Orpheum Bldg., Wichita, $3,740—4.427 mi. Marion Co. and 4.427 mi. Morris Co., to Cook & Cone, Ottawa, $2,457 and $2,916 respectively. Grand total, $13,972.

Kansas—State Hy. Comn., Court House, Lyndon, to Western Bridge & Constr. Co., 3867 Leavenworth St., Omaha, Neb., sand gravel surfacing 3.907 mi. K9-KP 1275 $2,567, light type surfacing 3.955 mi. K24-KP 1276 $3,051, both Jackson Co., 1.021 mi. K-78, K.P. 270 $661, 8.064 mi. U. S. Hy. 50N, K.P. 1271 $5,588, both Lyon Co., 3.188 mi. Osage Co. $4,085—to Thogmartin & Reis Constr. Co., Ft. Scott, 6.5 mi. Johnson Co. $1,503, sand gravel surfacing 11.711 mi. Marshall Co. $3,931—to B. Metzger, Ozawkie, light type surfacing 6.621 mi. Osage Co. $4,270. Grand total $25,646.

Kan., Kansas City—Grading, curbing, paving 7th St. Trafficway, to D. Shearrer, 329 North 18th St., $57,375.

Kentucky—State Hy. Dpt., Frankfort, grading, drainage structures, using 1st class rein.-con. pipe, traffic bound limestone surfacing 5.023 mi. Scottsville-Bowling Green Rd., Allen Co., to H. F. Mathis, Bardstown, $28,710; grading, drainage structures 0.356 mi. Kentucky River Bridge approaches at Gratz, Henry and Owen Counties, to Southeastern Constr. Co., Eminence, $5,170. Noted Dec. 3.

Maryland — State Roads Comn., Baltimore, G. C. Uhl, chn., sheet asphalt paving 0.6 mi. Contr. BC-111-74, Baltimore City, to P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio R.R., Baltimore, $54,391. Noted Dec. 24.

Md., Baltimore—Bd. Awards, concrete paving 15,000 sq.yd. footways, listed in Repair Contr. 7, to Arundel Contg. Co., 910 Trinity St., $24,046. Noted Dec. 10.

Massachusetts—Dpt. P. Wks., State House, Boston, A. W. Dean, engr., bituminous macadam paving 1,890 ft. hy., bituminous macadam paving 328 ft. on bridge, gravel approaches, King St. and Forge Village Rd., Littleton, to Greenough Constr. Co., 200 Calvery St., Waltham, $20,300; bitulithic concrete paving 22,570 ft. hy. in Hingham and Norwell, to Arute Bros., Inc., 513 South Main St., New Britain, Conn., $147,538. Noted Dec. 17.

Massachusetts—Dpt. P. Wks., A. W. Dean, engr., State House, Boston, bituminous macadam paving 31,590 ft. hy. Worthington, to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $197,406; rein.-con. and bituminous macadam (dual type) paving 14,220 ft. Andover, to P. J. Holland, 455 West Elm St., Brockton, $104,727; Noted Dec. 17.

Massachusetts—Dpt. P. Wks., State House, Boston, A. W. Dean, engr., bituminous macadam paving 14,960 ft. and bituminous macadam and rein.-con. (dual type) paving 11,437 ft., incl. rein.-con. bridge extension, Northboro and Shrewsbury, to M. Pandolph Co., Inc., Sachem Rd., Needham, $225,431. Noted Dec. 17.

Michigan—A. L. Burridge, div. engr., Cadillac, grading, shaping, drainage, gravel surfacing 7.154 mi. FO40-12C-1 Kalkaska Co., to J. S. Ventrelle Co. Inc., 14375 Coolidge St., Detroit, $101,759; 6.742 FO20-11C-1 Crawford Co., to Pickitt & Goodwin, Allegan, $75,789, for State Hy. Comn., Lansing. Noted Dec. 3.

Michigan—H. W. Hagaman, div. engr., 504 Eddy Bldg., Saginaw, grading, drainage structures 8.023 mi. M20—Mt. Pleasant east, Isabella Co., for State Hy. Comn., Landing, to L. M. Perry, Beaverton. $31,350. Noted Dec. 3.

Michigan—W. J. Kingscott, div. engr., 213 Watson Bldg., Grand Rapids, grading, drainage structures 0.822 mi. FO70-25C-1, Ottawa Co., for State Hy. Comn., Lansing, to Bronsema & Neitring, Grand Haven. $16,554. Noted Dec. 3.

Michigan—H. G. Oakes, div. engr., Plymouth, grading, drainage structures 12.538 mi. FO23-10C-1, Eaton Co., for State Hy. Dpt., Lansing, to W. H. Knapp Co., Monroe, $82,508. Noted Dec. 3.

Michigan — J. T. Sharpensteen, div. engr., Escanaba, grading, drainage structures 1.519 mi. FO55-4C-3 and 0.925 mi. FO55-4C-4, Menominee Co., for State Hy. Comn., Lansing, to C. G. Bridges, Escanaba, $16,516 and $26,632 respectively. Noted Dec. 3.

Mississippi—State Hy. Comn., Jackson, grading, drainage structures, clearing, grubbing 6.363 mi. Meridian-Hattiesburg Rd., Lauderdale Co., to J. A. and H. E. Pigford, Russell and Meridian, $61,786. Noted Dec. 10.

N. Y., Long Island City—G. U. Harvey, pres. Queens Bor,o Queens Subway Bldg., grading 64th Rd., to Slattery Contg. Co., 7202 51st St., $20,129—15th Rd. to L. Collins & Son, 147th St., Whitestone, $2,692—89th Ave. to J. Soverio, 282 Linwood St., Brooklyn, $19,600—145th St., to Marazzo & Temperini, $3,323—asphalt paving 126th St., to Highway Impvt. & Repair Co., Furmans Island, Brooklyn, $8,443—Palmetto Ave. and 52nd St., to Meehan Paving & Constr. Co., Laurel Hill Blvd., $10,043 and $5,436 respectively—80th St., to Carbloc Paving Co., Stagg St., Brooklyn, $18,581—Rockaway Blvd., to Gifford Constr. Co., 161-10 Jamaica Ave., Jamaica, $17,380. Grand total, $105,627. Noted Dec. 17.

N. Y., New York—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., grading Edison Ave., to Kane Haulage Co., 660 East 149th St., $3,469; Bruner and Bogert Aves., to Perotto Contg. Co., 1931 Haviland Ave. $5,000 and $8,840 respectively. Grand total $17,309. Noted Dec. 17.

N. Y., New York—S. Levy, pres. Manhattan Boro, Municipal Bldg., 12,000 tons structural steel for superstructure highway on 12th Ave., Sect. 1, Div. 2, to McClintic Marshall Co., 39 Bway. Noted Dec. 24, under "Contracts Awarded."

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous concrete repaving Richmond and Park Aves., to Vanbro Constr. Co., 24 Elizabeth St., New York, $14,587. Noted Dec. 17.

Oklahoma—State Hy. Dpt., Oklahoma City, grading, drainage structures 22.41 mi. State Hy. 24, 32 ft., McClain Co., to T. C. Ottinger, Hinton, $83,314 est. $90,000; 8 span 112 ft. rein.-con. bridge at Byers, McClain Co., to Bybee Constr. Co., 2904 West 20th St., Oklahoma City, $19,527 est. $25,000. Noted Dec. 17.

Oklahoma—State Hy. Dpt., Oklahoma City, gravel top surfacing 12 mi. U. S. Hy. 75, south from Otoka, 18 ft., Bryan Co., to J. A. Wylie, Marlow, $14,854; est. $25,000; 14 mi. State Hy. 8 north from Apache, 18 ft., Caddo Co., to H. C. Holden, Ardmore, $20,346; est., $25,000.

Pa., Waynesburg—W. K. Scott, secy., Boro Bldg., rein.-con. paving 3,068 ft., East Greene St. and streets in Franklin Twp., to Tri-State Eng. Co., Waynesburg, $21,142. Est. $25,000. Noted Dec. 17.

Tex., Austin—Grading, drainage, rein.-con., rock asphalt or bitulithic paving 5 blocks Waller Blvd., 45 ft., to Southwest Bitulithic Co., Castro St., San Antonio.

Washington—S. J. Humes, dir. Hys., Olympia, grading, crushed stone surfacing 8.459 mi. Whitman Co., to J. F. Konen, 326 Main St., Lewiston, Idaho, $122,911; 1.369 mi. Kitsap Co., to Eng. Constr. Co., 505 Lyon Bldg., Seattle, $30,208. Noted Dec. 3.

Wyoming — State Hy. Comn., Cheyenne, crushed rock surfacing 13.158 mi. Sheridan Co., to S. F. Ronde, Sheridan, $9,398; 170 ft. viaduct over Union Pacific R.R. Laramie Co., to E. Selander, Greeley, Colo., $8,860. Noted Dec. 24.

Ontario—Province of Ontario, Dpt. Northern Development, Parliament Bldgs., Toronto, grading, drainage structures, clearing, trunk and secondary roads in Algoma, Kenora, Manitoulin, Muskoka, Nipissing, Parry Sound, Cochrane, Rainy River, Sudbury, Temiskaming and Haliburton Dists. in Northern Ontario, day labor. $3,000,000. J. Senton, Parliament Bldgs., Toronto, engr.

Ont., Whitby—Ontario Co., D. J. Kean, engr., County Bldgs., widening, hill cutting, grading, ditching, graveling, culverts, bridges, surfacing roads, mostly by day labor. $50,000.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

Mass., Winchester—Commonwealth of Massachusetts, Boston, dredging Upper Mystic Lake and Aberjona River. To exceed $25,000. Metropolitan Dist. Comn., 20 Somerset St., Boston, engrs.

Ont., Port Credit—Town, diversion creek, 80 ft. long, open cut or 7 ft. diam. pipe drain, east of Brook St. $40,000. Gore, Nasmith & Storrie, 1130 Bay St., Toronto, engrs.

BIDS ASKED

La., New Orleans—Jan. 22, by Bd. State Engineers, D. C. Daniel, secy., 207 New Orleans Court Bldg., improving 7,800 ft. Westdale Middle New Levee, Red River-Bayou Pierre Levee and Drainage Dist., west bank of Red River, Red River Parish, incl. 35,000 cu.yd. excav.

Neb., Scottsbluff — Jan. 11, by Scottsbluff Co. D. D. 2, D. J. Roach, secy., drainage canal and structures, incl. 108,000 cu.yd. excav., 205.09 cu.yd. concrete, 367 ft. 48 in. corrugated iron culvert, $19,324. Selzer & Finley, Scottsbluff, engrs.

Ont., Brantford—See "Contracts Awarded."

CONTRACTS AWARDED

Ont., Brantford—City, earth filling canal from Lorne Bridge to Mohawk Lake, day labor. Est. $100,000. F. P. Adams, City Hall, engr. Noted Nov. 19.

Bond Elections

Coming Bond Elections

Waterworks — Illmo, Mo., Jan. 12, $45,000 Caldwell Engr. Co., Jacksonville, Ill., Engrs.

Waterworks Impvts., inc. Replacing Wood Pipe Mains With C.I. Pipe, 1 m.g. Storage Tank, etc.—Tooele, Utah, Jan. 16, $50,000. Former election declared illegal. J. L. Gollaher, City Mgr.

Sewage Disposal Plant—Houston, Tex., $850,000, election soon. J. M. Nagle, City Engr.

Bonds Voted

Snow Removal Equipment—Manheim (P. O. Dolgeville), N. Y. $14,000.

Bonds Defeated

Sewers and Disposal Plant — Springfield, Mo., $200,000.

Court House—Mt. Clemens, Mich., $250,000.

FEDERAL GOVERNMENT

PROPOSED WORK

Calif., Redlands—POST OFFICE—Treas. Dpt. at office Sup. Archt., plans by G. S. Wilson, 3646 West 9th St., Riverside, U. S. Post Office. **$170,000.**

Calif., San Jose—POST OFFICE—Treas. Dpt. at office Sup. Archt., plans by R. Wyckoff, Growers Bank Bldg., U. S. Post Office.

Calif., Sunnyvale—ADMINISTRATION—Yards & Docks, Navy Dpt., Wash., D. C., administration building, enlisted men's barracks dispensary, helium repurification building, 1,000,000 cu.ft. helium storage room, piping tunnel, cafeteria and rest house.

Calif., Vallejo—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by Dean & Dean, Calif. State Life Bldg., Sacramento, U. S. Post Office.

Illinois—DREDGING—U. S. Eng., 428 Custom House, St. Louis, Mo., soon takes bids 1,428,000 cu.yd. earthwork in elvee and drainage work in Hartwell Drainage & Levee Dist. in Illinois River, Green Co.

Ill., Chicago—LOCKKEEPERS DWELLINGS—U. S. Eng., 4 brick lockkeepers buildings 2 at Starved Rock Lock and 2 at Marseilles.

Ia., Des Moines—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., soon takes bids 2 story, basement, brick, stone, concrete addition, 2nd and Walnut St. $775,000. J. A. Wetmore, c/o owner, acting superv. archt.

Ky., Harrodsburg—MONUMENT—Con. Q. M., L. H. Bash, in charge, plans by F. Keally, 101 Park Ave., New York monument, Pioneer Park. $100,000. U. H. Ellerhusen, 16 East 23rd St., New York, sculptor.

N. J., Lakehurst—BUILDING—Spec. 6455—Yards & Docks, Navy Dpt., 1 story building, concrete found.

N. J., Union City—POST OFFICE—Treas. Dpt. at office Sup. Archt., plans by Mahnken & Schultz, 26 Journal Sq., Jersey City, 2 story, basement, brick, steel, 32nd St. and Palisade Ave. $260,000. J. G. Helmars, 135 Summit Ave., engr. Noted Oct. 1.

N. J., West New York—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by P. Cayot, West New York, U. S. Post Office. $375,000. Bowden, Russell & Garland, 19 West 44th St., New York, assoc. archts. Noted Nov. 26.

O., Portsmouth—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office.

Tenn., Memphis — DERRICK — U. S. Eng., Memphis, whirler derrick for paving plant.

Va., Norfolk — DREDGING — U. S. Eng., 9,049,824 cu.yd. dredging 40 ft. channel in Norfolk Harbor between North and Portsmouth Belt Line R.R. Bridge, over Southern branch Elizabeth River and deep water in Hampton Roads.

BIDS ASKED

Colo., Denver—CRANE—Spec. 555-D—Jan. 15 by Bureau Reclamation, one 20 ton overhead traveling crane.

Del., Summit Bridge—SHEET PILE—U. S. Eng., Wilmington, taking bids 192,000 sq.ft. steel sheet pile cut-off wall. Noted Dec. 31.

D. C., Wash.—BARRACKS—Jan. 20, by U. S. Eng., 1 air corp barracks, $358,000.; adv. E.N.-R. Jan. 7.

D. C., Wash.—FOUNDATIONS—Jan. 13, by Treas. Dpt. at office Sup. Archt., foundations for Archives Building; adv. E. N.-R. Jan. 7. Noted June 4, under "Contracts Awarded."

Federal Government (Continued)

D. C., Wash.—BRASS BOLTS—Jan. 11, by General Purchasing Officer Panama Canal, 1,000 brass bolts, 13,000 carriage bolts, 1,100 toggle bolts, etc., Schedule 2715.

D. C., Wash—STEEL, etc.—Jan. 15, by General Purchasing Office Panama Canal, plate steel, sewer pipe, sewage pump, bolts, nut screws, lumber, etc., Schedule 2716.

Fla., Hollywood—REPAIRING—Jan. 28, by U. S. Eng., Jacksonville, repairing north and south jetties at entrance to Hollywood Harbor (Port Everglades); adv. E. N.-R. Jan. 7.

Ga., Atlanta—POST OFFICE, etc.—Jan. 12 (extended date), by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office and Court House. $1,500,000. Noted Dec. 3.

Illinois—U. S. Eng., 428 Custom House, St. Louis, Mo., bids about Jan. 20, 1,355,000 cu.yd. 1,428,000 cu.yd. earthwork in levee and drainage work in Big Swan Levee and Drainage Dist., on Illinois River, Green Co.

Ill., Peru—POST OFFICE—Jan. 25, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office; adv. E.N.-R. Jan. 7.

Ind., Evansville—HOSPITAL—Jan. 26, by Treas. Dpt. at office Sup. Archt., Wash., D. C., 3 story, basement, rein.-con. addition to U. S. Marine Hospital. Noted Oct. 22.

Ind., Evansville—POST OFFICE—Jan. 26, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted July 16.

La., Shreveport—FUELING STATION—Jan. 20, by U. S. Eng., Barksdale Field, gasoline fueling station, Barksdale Field; adv. E. N.-R. Jan. 7.

Mass., Boston—RODS, etc.—Jan. 12, by Yards & Docks, Navy Dpt., 9,600 lb. ⅝ in. manganese nickel, rolled round rods, mill length; steam jacketed aluminum kettles for Boston Navy yard.

Mich., Detroit—POST OFFICE—Feb. 15, by Treas. Dpt. at office Sup. Archt., U. S. Post Office, Court House, Custom House (except founds. of elevators). Noted Nov. 12.

Minn., Hastings — CHANNEL MARKERS — Jan. 12, by U. S. Eng., 615 Commerce Bldg., St. Paul, 10 channel markers on concrete piers in Mississippi River, about 1 mi. apart, from Hastings, north. $17,000.

Mont., Anaconda—POST OFFICE—Jan. 27, by Treas. Dpt., at office Sup. Archt., Wash., D. C., U. S. Post Office.

N. Y., Brooklyn—WIRE—Jan. 12, by Signal Supply Officer, Army Base, 58th St. and 1st Ave., wire; transformers; capacitors.

N. Y., Schenectady—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about Mar. 1 or later, U. S. Post Office, J. M. Ryder, 122 Jay St., archt. McKim, Meade & White, 101 Park Ave., New York, consult archts. Noted Nov. 12.

O., Troy—POST OFFICE—Jan. 27, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office; adv. E.N.-R. Jan. 7.

Wis., Menasha—POST OFFICE—Jan. 13, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office.

CONTRACTS AWARDED

Calif., March Field—GARAGES, etc.—Con. Q.M., garages and storehouses, to Bannister-Field Co., 4101 Godwin St., Glendale, $29,881.

Calif., Stockton—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Murch Bros. Ry. Exchange Bldg., St. Louis, Mo., $406,000. Noted Nov. 12.

Ill., Maywood—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Rosen & Fischel, 11 South La Salle St., Chicago, $78,509. Noted Nov. 26.

Ky., Lexington—FOUNDATIONS—Treas. Dpt. at office Sup. Archt., Wash., D. C., founds. for U. S. Narcotic Farm, to Raymond Constr. Co., Inc., Bowling Green, $217,341. Noted Dec. 5.

La., Shreveport—KITCHEN EQUIPMENT—Con. Q. M. Office Barksdale Field, constructing and installing kitchen equipment in air corps barracks, at Barksdale Field, to Southwestern Specialty Co., 125 Guadalupe St., San Antonio, $24,250. Noted Nov. 19.

Mass., Boston—PLUMBING—Treas. Dpt. at office Sup. Archt., Wash., D. C., plumbing in U. S. Post Office, to Katz & Lewis, 2205 West Roosevelt St., Chicago, Ill. Noted Apr. 2, under "Contracts Awarded."

Missouri—PILING DIKES—U. S. Eng., Custom House, St. Louis, 3,200 lin.ft. piling dikes at Howard Bend and 1,200 ft. standard batter pile dikes at Lower Bonhomme Bend, to Patton Tully Transportation Co., Memphis, Tenn., $74,135 and $30,520 respectively. Noted Nov. 12 and 19.

Missouri — PILING DIKES — U. S. Eng., Custom House, St. Louis, to Patton-Tully Transportation Co., Memphis, Tenn., 4,800 lin.ft. dikes in Missouri River, Washington Creek, $106,040; 3,500 lin.ft. at Augusta Bend, $81,926; 4,500 lin.ft. at South Point Bend, $94,050, to M. A. Wogan, Kansas City, 2,200 lin.ft. at Marthasville Reach, $48,395. Grand total $330,411. Noted Nov. 12.

Neb., Beatrice—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, extending U. S. Post Office, to Noyes, Roach & Co., Syndicate Trust Bldg., St. Louis, Mo. Est. $40,000. Noted Nov. 26.

Nev., Boulder City—RESIDENCES—Bureau Reclamation, Las Vegas, seventeen 3 room and twelve 4 room cottages, to C. F. Bengtson, Las Vegas, $11,905. Noted Nov. 26.

Ore., Nyssa—ELEVATOR—Bureau Reclamation, 9,000 lb. live load freight elevator and passenger elevator, 270 ft. lift for Owyhee Dam, to Los Angeles Elevator Co., 1809 East 9th St., Los Angeles, Calif., $8,394. Noted Nov. 5.

Pa., Clearfield—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., 1 story, basement, 91 x 115 ft., brick, North 2nd and Pine Sts., to R. B. McDanel Co., 400 7th Ave., New Brighton, $80,000. Noted Nov. 26.

Pa., Pittsburgh—ELEVATORS—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevators for 10 story, 146 x 196 x 534 ft., stone, granite post office, to Westinghouse Electric Elevator Co., 1500 North Branch St., Chicago, Ill., $303,930. Noted Dec. 31, under "Contracts Awarded."

Pa., Pittsburgh—STRUCTURAL STEEL — Aronberg-Fried Co., 21 East 40th St., New York, 16,000 tons structural steel for superstructure U. S. Post Office, Court House, to Fort Pitt Bridge Wks., Oliver Bldg., for Treas. Dpt. at office Sup. Archt., Wash., D. C. Noted Dec. 31, under "Contracts Awarded."

Tenn., Memphis—PIPE— U. S. Eng., McCall Bldg., 32,800 ft. w.i. pipe, f.o.b. Supply & Repair Depot, to Frick-Reid Supply Corp., 11 Sandowsky St., Pittsburgh, Pa., $7,041; 280 sections 18 in. inside diam. shore pipe; f.o.b. Supply & Repair Depot opposite Memphis, Tenn., to Caldwell Fdry. & Machine Co., 1300 5th Ave. N., Birmingham, Ala., $5,600.

Texas—DREDGING—U. S. Eng., Galveston, 8,468,500 cu.yd. in Louisiana and Texas Intercoastal Canal, to Atlantic, Gulf & Pacific Co., 15 Park Row, New York, at $0.0417 per cu.yd. Noted Oct. 22.

Tex., Freeport—DREDGING—U. S. Eng., Galveston, dredging Freeport Harbor to Gulf Coast Dredging Co., 2311½ C St., Galveston, at $0.0646. Noted Oct. 22.

RAILWAYS

PROPOSED WORK

Colorado and California—Denver & Pacific R.R. Co., C. Crenshaw, pres., Salt Lake City, recently incorporated in Wilmington, Del., filed application with Interstate Commerce Comn. for permission to build 800 mi. line from Denver, Colo., to San Pedro Harbor, Calif.

SUBWAYS AND TUNNELS

CONTRACTS AWARDED

Md., Baltimore—Pennsylvania R.R., T. J. Skillman, ch. engr., Broad St. Sta., Phila., Pa., concrete, steel tunnel, Hoffman St. from Bond St. to Greenmount Ave., to Arundel Corp., Pier 2, Pratt St., $1,500,000.

GRADE CROSSINGS

PROPOSED WORK

Massachusetts — Commonwealth of Massachusetts, Dpt. P Wks., State House, Boston, Boston & Maine R.R., W. J. Backes, ch. engr., Boston, and town of Reading, completed preliminary plans, grade crossing elimination, South Main St., Reading. $500,000. Noted Mar. 12.

N. J., Atlantic City—Pennsylvania R.R. Co., T. J. Skillman, ch. engr., Broad St. Sta., Phila., Pa., eliminating grade crossings on West Jersey and Sea Shore R.R. at Higbee Rd., Arctic, Baltic Kentucky, Illinois, New York, Tennessee, Indiana and Ohio Aves. $6,000,000. Noted Oct. 1.

N. J., Atlantic City—Reading R.R. Co., C. Dillenbeck, ch. engr., Reading Terminal, Phila., Pa., eliminating crossing at Higbee Rd., Arctic and Baltic Aves. To exceed $1,000,000.

N. J., Elizabeth—Central R.R. of New Jersey, A E. Owen, ch. engr., Jersey City, eliminating grade crossings at Bway., New Point, Port and Magnolia Aves., Trumble, Pine, Bond and Court Sts., also eliminating Bway. Div., New Point Rd., 4th, 5th, 7th, Division and East Grand Sts. To exceed $8,000,000. Noted Oct. 1.

N. J., Pitman—Pennsylvania R.R. Co., T. J. Skillman, ch. engr., Broad St. Sta., Phila., Pa., eliminating 3 grade crossings. $530,000.

New York—Long Island R.R. Co., A. C. Watson, ch. engr., Penn. Sta., New York, plans eliminating 8 grade crossings, at Springfield and St. Albans. $2,261,000. **Maturity soon.** General plans approved, detailed plans submitted and returned for correction.

New York—Staten Island Rapid Transit Co., 25 Bway., New York, eliminating grade crossings by track elevation at Richmond Terrace, Faber St., Park, Richmond, Maple, Sharpe, Tredwell and Nicholas Aves., Port Richmond; carrying South Ave. under tracks, and eliminating crossings at Morning Star Rd., Union, Denart, Van Pelt, Van Name, Simonson, Granite and Newark Aves., Lake, Duncan and John Sts., at Mariners Harbor. $2,400,000. Transit Comn. ordered construction, general plans approved and detailed plans submitted.

New York—Staten Island Rapid Transit Ry., 25 Bway., New York, plans eliminating 9 grade crossings, Grant City and New Dorp.

N. Y., Amenia—New York Central R.R F. B. Freeman, ch. engr., 466 Lexington New York, eliminating grade crossing Amenia-Sharon Hy., 1 mi. northeast of $150,900.

N. Y., Brooklyn—Long Island R.R. Co., Watson, ch. engr., Penn. Sta., New York, lets contract extending new street over road, at Linden Blvd. $168,000. Bids in.

N. Y., Buffalo—New York Central R.R F. B. Freeman, ch. engr., 466 Lexington New York, bids early in spring eliminating year Ave. and Miller Ave. Crossings. Serv. Comn. approved plans. Noted Jan. 1930.

N. Y., Elmhurst—Long Island R.R. Co., Watson, ch. engr., Penn. Sta., New York, eliminating 20 grade crossings, Atlantic $18,320,000. P. Serv. Comn. ordered work, definite when program will proceed.

N. Y., Fort Wadsworth—Staten Island Transit Ry., 25 Bway., New York, eliminating 3 grade crossings, $647,000. **turity soon.** General and detailed plans proved by P. Serv. Comn.

N. Y., Hoosick—Boston & Maine R.R. W. J. Backes, ch. engr., Boston, Mass., and cost approved by Pub. Serv. Comn., ing Pease Crossing on Old North Turnpik Rensselaer Co. $94,900. Noted Jan. 1.

N. Y., Pelham—Westchester Co. Park Com 72 West Pondfield Rd., Bronxville, rejected Nov. 24, overcrossing Hutchinson River way, Boston Post Rd. Noted Nov. 12.

N. Y., Wayland—Delaware, Lackawanna & Western R.R. Co., G. J. Ray, ch. engr., Hoboke N. J., eliminating Lackawanna Avenue Cross east of Wayland Station, Steuben Co. $149,6 Dpt. P. Wks. pays $34,415 of cost for certa work on approaches.

Ont., Toronto—See "Bridges."

CONTRACTS AWARDED

Mass., Littleton—Boston & Maine R.R. Co W. J. Backes, ch. engr., Boston, general tract steel, concrete grade crossing, hy. bridg to Lathrop & Shea Co., 178 Goffe St., New Haven, Conn.; structural steel erection, to Boston Bridge Wks. Inc., Binney St., Cambridge. Es $150,000. Noted Feb. 19.

Tex., Fort Worth—City and Texas & Pacifi R.R., E. F. Mitchell, ch. engr., Dallas, c/o F. Lancaster, overpasses at Summit, Balling and Daggett Sts., to John Abbott Constr. Co 2908 Lipscomb St. Est. $50,000. Noted Nov. 1

DAMS

PROPOSED WORK

Colo., Victor—Southern Colorado Power Co c/o W. N. Clark, genl. mgr. Pueblo, improvin Skaguay Dam. $20,000. **Maturity in spring.**

Ia., Rochester—Iowa Power & Light Co., Cedar Rapids, power dam across Cedar River near here. $1,000,000.

PIERS AND WHARVES

BIDS ASKED

N. Y., Yonkers—DOCK—Feb. 5, by Westchester Co. Sanitary Sewer Comn., Court Hous Annex, White Plains, 400 lin.ft. dock on piles Sect. G. Sawmill, North and Central Yonkers Projects, on or near Alexander St. W. W Young, consult. engr.

Wis., Greene Bay—DOCKS—Hoberg Paper Fibre Co., taking bids on separate contracts dock and mill shipping facilities, Fox River $50,000.

CONTRACTS AWARDED

N. Y., New York—PIER—J. McKenzie, comr Docks, Pier A, foot Battery Pl., constructing Pier 45, North River, to Allen N. Spooner & Son, Pier 11, North River, $354,800. Noted Oct. 29.

N. Y., New York—PIER—J. McKenzie, comr Docks, Pier A, Battery Pl., pier at East 107th St., to Allen N. Spooner & Son, Pier 11, North River, $88,660. Noted Dec. 10.

AIRPORTS

BIDS ASKED

Mo., Bridgeton—Feb. 2, by Bd. P. Serv., City Hall, 1 and 2 story, basement, 198 ft. long 37 to 58 ft. wide, rein.-con., brick, steel terminal building, at Lambert-St. Louis Municipal Airport. $152,000. L. R. Bowen, city engr A. Osburg, city archt. Noted July 30.

POWER AND LIGHTING

PROPOSED WORK

Colorado—See "Power Plants."

Ill., Chicago—Standard Gas & Electric Co., South La Salle St., preliminary construction budget for 1932 as follows: electrical department $16,347,300, gas department $3,319,809 other departments incl. general construction $5,338,857 total $25,015,966. Projects under

Power and Lighting (Continued)

construction included in above $3,508,034. Byllesby Eng. & Management Corp., 231 South La Salle St., engrs.

Kan., Oswego—City Council, natural gas distribution system, valves, taps. $32,000 bond election Dec. 29 for same. F. E. Devlin, W.K.H. Bldg., Wichita, engr. Noted Dec. 17.

Mo., St. Louis—St. Louis Industrial Fuel Gas Co., H. L. Ruppert, pres., c/o H. L. Ruppert & Co., Inc., 402 Pine St., applied to Missouri Pub. Serv. Comn. for permission to lay natural gas mains and to distribute gas to consumers. To exceed $1,000,000. K. Wilson, c/o owner, vice pres.

N. Y., Claverack—Albany Southern R.R. Co., and Eastern New York Utilities Corp., c/o Mohawk-Hudson Power Co., Rensselaer, electric distribution extensions. Pub. Serv. Comn. granted permit.

Okla., Sayre—City Council, F. Holmes, mayor, granted franchise to J. A. Brickell, Sayre, natural gas system. $35,000. Private plans.

Tex., Wichita Falls—Taxpayers voted to give city authority to establish municipal natural gas plant $800,000. Address City Engineering Dpt.

PARKS AND SPORTS

PROPOSED WORK

Ind., Elwood—Bd. P. Wks., swimming pool in Calloway Park. $30,000. **Maturity in Spring.**

Mass., Boston—City, Park Dpt., 33 Beacon St., sketches by Hefferman & Gray, 175 High St., glass sun house, at L St. Bath House, South Boston. $50,000.

Mo., University City—Park Bd., A. E. Veith, pres., final plans underway and bids early 1932. 150 x 190 ft. rein.-con. swimming pool, modern filter equipment. 1 story, 80 x 120 ft. brick, concrete bath house, in Heman Park, Olive Blvd. and Creve Coeur Lake St. car tracks. $45,000.

N. Y., Brooklyn—H. Hesterberg, pres. Brooklyn Boro, Boro Hall, 4 or more (glass enclosed) pavilions, Boardwalk, Coney Island and beaches. To exceed $150,000. No appropriation made.

N. Y., Coney Island (sta. Brooklyn)—Tilyou Realty Co., Steeplechase Park, sketches by P. F. Meyer, 1530 West 3rd St., Brooklyn, 34 x 43 ft. and 26 x 26 ft. concrete swimming pools, Surf Ave. and West 19th St.

N. Y., New York—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves. and Park Assn. of City of New York, 71 West 23rd St., park, at Fort Schuyler, when government abandons post here. **Maturity indefinite.**

Tex., Corpus Christi—E. E. Calloway, Corpus Christi, plans by R. Powers, 6 North Michigan Ave., Chicago, Ill., coast resort center incl. restricted residential center, large tourist hotel, large fresh water lake, golf courses, bathing beach, promenades, complete installation of gas, sewer, water and light systems, dam, recreational services, etc. $20,000,000-$30,000,000.

Wyo., Ranchester—See "Clubs."

Ont., Toronto—For rein.-con. swimming pool, dressing rooms, lockers, chlorination and heating equipment, Toronto Island. $40,000. R. C. Harris, City Hall, engr.

BIDS ASKED

Calif., San Diego—See "Contracts Awarded."

N. Y., Long Island City—Jan. 12, by Park Dpt., W. R. Herrick, pres. Park Bd., Arsenal Blddg., New York, improving mall spaces located on 44th Dr. from Vernon to Jackson Aves.; reconstructing golf links, Forest Park.

N. Y., New York—Jan. 12, by Park Bd., W. R. Herrick, pres. Park Dpt., Arsenal Bldg., reconstructing playground in Annunciation Park.

CONTRACTS AWARDED

Calif., San Diego—City, 18 hole all grass golf course, in Balboa Park, force account. $100,000. H. W. Jorgensen, City Hall, engr.

N. Y., New York—Park Bd., W. R. Herrick, pres. Park Dpt., Arsenal Bldg., Central Park, masonry wall, at Bronx Park East, at New York Botanical Gardens, to F. Mascali & Sons, 645 East Tremont Ave., $28,009. Noted Dec. 3.

HEATING AND VENTILATING

PROPOSED WORK

Ariz., Prescott—City Council, 5,000 gal. fuel tank and new oil burning furnace for city hall. A. J. Kline, Prescott, engr.

BIDS ASKED

Conn., Stamford—City, Building Comn., taking bids heating and plumbing in Junior High School. $25,000. Former bids rejected. Emmens & Abbott, 1 Prescott St., archts. Noted Nov. 5, under "Schools."

Mass., Cambridge—Radcliff College, A. L. Comstock, and Coolidge & Carlson, archts., 89 State St., Boston, heating and plumbing in laboratory, near college grounds. $25,000 or more. Noted Sept. 10, under "Schools."

CONTRACTS AWARDED

Mass., Palmer — Commonwealth of Massachusetts, Dpt. Mental Diseases, boiler settings at Monson State Hospital, to O. F. Carlson, Warehouse St., Springfield, $21,800.

N. J., New Brunswick—Bd. Freeholders Middlesex Co., County Record Bldg., heating and ventilating in court house and connecting tunnel, to Burns Lane & Richardson, 301 Burnett St.; plumbing, to Collins & Gibbons, 47 Jersey Ave., New Brunswick; electrical work, to C. E. Benni, Piscataway, steel and iron, to Elizabeth Iron Wks., 127 Franklin St., Elizabeth. Noted Dec. 24, under "Public."

N. Y., Wassaic — Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, heating, sanitary and equipment, kitchen equipment kitchen and dining hall Building DM, Wassaic State School, to Harry Brett & Co., 129 West 31st St., New York, $28,784. Noted Oct. 29.

UNCLASSIFIED

PROPOSED WORK

Calif., Kernville—GOLD MINING DEVELOPMENT, etc.—American Smelting & Refining Co., 120 Bway., New York, gold mining development, and exploration, incl. building, machinery and equipment purchased on large scale. To exceed $100,000.

Ill., Chicago—TELEPHONE IMPROVEMENTS, etc.—Illinois Bell Telephone Co., 212 West Washington St., Chicago, subsidiary American Telephone & Telegraph Co., New York, plans construction, improvements in Chicago and surrounding territory. $7,000,000, includes only part of 1932 program. (Chicago alone $5,-750,000).

Mass., Orleans—FUEL OIL TERMINAL—W. H. Snow & Son, Main St., fuel oil plant to include four 10,000 gal. steel tanks and buildings. To exceed $25,000. Private plans.

Mass., Provincetown—FUEL OIL STATION —Joseph A. Steele & Son, Bradford St., fuel plant, to include two 10,000 gal. steel tanks and buildings. To exceed $25,000. Private plans.

N. Y., Brooklyn—STABLES—Teevan Riding Academy, East 8th St. and Caton Pl., plans by E. Falkenhainer, 1958 East 31st St., 2 story, 82 x 100 ft. stables, East 8th St. and Caton Pl.

N. Y., New York — MARINE TRAINING BASE—See "Schools."

Oklahoma—OIL PIPE LINE—Gulf Pipe Line Co. of Oklahoma, 1st Natl. Bldg., Tulsa, H. J. Bennett, supt., will build 60 mi. 6 in. oil pipe line from Henryetta to Jenks. $300,000. Private plans.

Oklahoma—PIPE LINES—Limestone Oil & Gas Co., L. Campbell, pres., Springfield, Mo., final plans made 20 mi. 8 in. natural gas pipe line from Wilburton to Quinton. $40,000.

Pennsylvania — TELEPHONE CONSTRUCTION, etc.—Bell Telephone Co. of Pennsylvania, 1835 Arch St., Phila., L. H. Kinnard, pres., subsidiary American Telephone & Telegraph Co., 195 Bway., New York, expending $25,500,000 during 1932 on new construction and service, of which $8,500,000 will be spent in Philadelphia, incl. addition to Woodland central office, 54th St. and Woodland Ave., new central office at Frankford Ave. and Vincent St., $1,000,000 each, altering building at 7254 Rising Sun Ave., Fox Chase, $600,000.

Tex., Gail—MINERAL MINING—C. A. Godfrey, mining ammonium chloride 99½% pure in tests recently made, incl. installing proper mining equipment, etc. Private plans.

MATERIALS

PROPOSED WORK

CEMENT and CONCRETE — **Corning, Ia.** — Adams Co., at office C. T. Mercer, aud., rejected bids Nov. 23, 1,200 bbl. cement and 7,000 tons concrete mix.

ROAD OIL, etc.—**Minneapolis, Minn.**—Hennepin Co. purchasing road oil, cut-back asphalt and tar, guard rails and posts, for 1932 supply.

BIDS ASKED

ARCH CASTINGS—**Chicago, Ill.**—Jan. 11, by City at office Dpt. P. Wks., City Hall, 3,000 c.i. arch castings, at Pipe Yard B, 3150 South Sacramento Ave. A. A. Sprague, comr.

LUMBER and PILING—**Cherokee, Ia.**—Jan. 12, at office Auditor Cherokee Co., 121,894 ft. untreated fir and 79,592 ft. treated yellow pine lumber, 6,300 ft. treated yellow pine piling. F. C. Rubey, Court House, engr.

CULVERT PIPE, HARDWARE, LUMBER, etc.—**Leon, Ia.**—Jan. 12, at office Auditor Decatur Co., 4,760 lin.ft. corrugated culvert, miscellaneous hardware, 2,050 ft. red cedar piling, 4,380 ft. creosoted yellow pine piling, 48,000 ft. treated bridge lumber, 268,000 ft. untreated bridge lumber. Address County Engineer or Auditor, Leon.

WATER PIPE—**Minneapolis, Minn.**—Jan. 21, by F. S. Gram, city purch. agt., 20,039 lin.ft. 24 and 30 in. c.i. pipe both standard and centrifugal. N. W. Elsberg, city engr.

PORTLAND CEMENT, etc. — **Long Island City, N. Y.**—Jan. 11, by G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., 3,000 bags portland cement; 2,000 cu.yd. mineral aggregate; 13,057 cu.yd. cementitious road gravel.

LUMBER—**New York, N. Y.**—Jan. 13, by M. F. Kenney, deputy and acting comr., Municipal Bldg., lumber and piles to Dpt. Docks and Sanitation.

TAPPING VALVES, etc.—**Spokane, Wash.**—Jan. 14, by C. T. Bogart, city purch. agt., ten 4 in. tapping valves, ten 6 in. tapping valves, for Mueller Drilling Machine "C," standard pressure; two 18 in. horizontal flanged end gate valves equipped with bevel gearing, bronze tracks, rollers and scrapers, 3 in. by-pass and indicator, for 150 lb. water working pressure; one 30 in. horizontal flanged end gate valve equipped with bevel gearing, bronze tracks, rollers and scrapers, 4 in. by-pass and indicator for 150 lb. water working pressure; one 18 in. horizontal flanged balanced swing gate check valve with 3 in. by-pass for 150 lb. water working pressure, all flanged to be drilled 1928 standard; twenty-five 6 in. hydrants with 5 in. valve opening and one 4 in. steamer connection; two 2½ in. hose connections with independent gates; also 5,400 lin.ft. 6 in. c.i. pipe, f.o.b. cars Spokane.

CONTRACTS AWARDED

CAST IRON PIPE and FITTINGS—**Burbank, Calif.**—City Council, furnishing f.o.b. trenchside 4,800 lin.ft. Class B and 200 lin.ft. Class C 10 in. c.i. pipe fittings AWWA Spec.: one 6 to 4-in. and three 10- to 8-in. reducers SEB; one 10 x 4 in., one 10 x 8 in., one 10 x 10 in. crosses, all-bell; ten 10 x 10 in. x 6 in. and two 10 x 10 in. tees, all-bell, to United States Pipe & Fdry. Co., 2326 East 8th St., Los Angeles, $8,700.

CAST IRON PIPE—**Long Beach, Calif.**—City Council, 10,848 lin.ft. 24 in. c.i. water pipe, Class A, to U. S. Pipe & Fdry. Co., 2326 East 8th St., Los Angeles, $24,733.

STEEL PIPE—**Los Angeles, Calif.**—City Council, 3,600 ft. laying length 40 in. diam., and 6,800 ft. laying length, 30 in. inside diam. [illegible] in. wall, electric welded steel pipe, to Western Pipe & Steel Co., 5717 Santa Fe Ave., $52,480.

CAST IRON BELL PIPE, etc — **Hartford, Conn.**—Bd. Contr. & Supply, R. Dillon, secy., 8,000 ft. 12 in. centrifugally cast c.i. pipe Class 150 and 367 tons 12 in. pit cast pipe AWWA Class C, for Metropolitan Dist., 550 Main St., to R. D. Wood & Co., House Bl., Phila., Pa. $8,472. Noted Dec. 17.

LUMBER, etc. — **Corning, Ia.** — Adams Co., 163,000 ft. fir lumber, and 3,280 ft. creosoted yellow pine piling, to Nebraska Bridge Supply & Lumber Co., 448 Peters Trust Bldg., Omaha, Neb.; 4,500 lb. nails, bolts and washers, to A. T. Wheeler & Son, Corning; 70,000 sq.ft. mesh, to F. O. Akin, Corning. Noted Nov. 19.

CULVERT PIPE, etc. — **Logan, Ia.** — See "Bridges."

STEEL CASTINGS—**Amesbury, Mass.**—Essex Co., Court House, Salem, steel castings for Essex-Merrimack Bridge, to Boston Bridge Wks., Inc., Binney St., Cambridge, $3,875.

WATERPROOFING FABRIC—**Boston, Mass.** —Transit Dpt., 1 Beacon St., 45,000 sq.yd. asphalt saturated waterproofing fabric, to Brunseene Co., Stanley Ave., Watertown, $3,820. Noted Dec. 10.

STEEL, BOLTS, etc.—**Minneapolis, Minn.**—F. S. Gram, city purch. agt., steel piling, structural steel, bolts, washers, for constriction seawall at municipal coal docks on Mississippi River, to Inland Steel Co., 1411 Pioneer Bldg., St. Paul, $12,715.

GRAVEL—**Long Island City, N. Y.**—G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., 20,000 cu.yd. gravel, to P. J. Lynch, 80 Hudson Ave., Haverstraw, $32,300. Noted Nov. 19.

CASTINGS—**Providence, R. I.**—Sewer Dpt., City Hall, special castings as specified, to E. L. Le Baron Fdry. Co., Brockton, Mass., $5,969; iron castings as specified, standard sewer castings, to Builders Iron Fdry. Co., 9 Codding St., $6,995. Noted Dec. 10.

EQUIPMENT

PROPOSED WORK

ROAD MACHINERY—**Appleton, Wis.**—Outagamie Co., F. R. Appleton, comr., road machinery, incl. 2 trucks. $30,000 appropriated.

ROAD MACHINERY — **Green Bay, Wis.** — Brown Co., G. J. Cormier, comr., purchasing road maintenance machinery and equipment. $20,000 appropriated. Private plans.

SIGNAL and TRAIN TRIPPING DEVICE—**Brooklyn, N. Y.** — New York Rapid Transit Co. (B.M.T. Lines), 385 Flatbush Ave., furnishing and installing automatic signal and train tripping device on Liberty Ave. Line—Atlantic to Lefferts Aves., $300,000; also on Brighton Beach Line—Franklin Ave. to Coney Island, $50,-000; on Canarsie Line—Atlantic to Rockaway Parkway, to exceed $75,000.

SIGNAL and TRAIN TRIPPING DEVICE—**Brooklyn, N. Y.**—New York Rapid Transit Co. (B.M.T. lines), 385 Flatbush Ave., plans automatic signal and train tripping device on local tracks Culver Line (9th Ave. to 8th St., Coney Island). $100,000. Work ordered by Transit Comn. but delayed pending subway unification negotiations.

BIDS ASKED

TRUCK—**Valley City, N. D.**—Jan. 18, by J. M. Bailli, aud. Barnes Co., one 4-wheel drive truck.

DUMP TRUCK—**Duryea, Pa.**—Jan. 18, by Boro Council, W. M. Williams, secy., one 6 cylinder 2½ ton steel dump truck with dual rear wheels. $7,500.

Equipment (Continued)

PUMPING and POWER MACHINERY—**Borger, Tex.**—Phillips Petroleum Co., Cartlesville, Okla., in market pumping and power machinery for oil pipe line. To exceed $40,000.

BITUMEN PRODUCTS MANUFACTURING MACHINERY—**Brantford, Ont.**—Sussex Bitumen Co., London, England, in market for machinery and equipment necessary for manufacture of bitumen products.

CONTRACTS AWARDED

POWER TRANSFORMERS — **San Francisco, Calif.**—S. J. Hester, secy. Bd. P. Wks., City Hall, six 1,667 kva. transformers in connection with Corral Hollow Pipe Line and Hetch Hetchy Projects, to Maloney Electric Co., Rialto Bldg., $22,620; one 200 r.p.m. and nine 1,000 r.p.m. synchronous motors for same projects, to Electric Mchy. Mfg. Co., Call Bldg., $10,630 and $34,000 respectively. Grand total $67,250. Noted Nov. 12.

FRAMES and COVERS—**Boston, Mass.**—Supply Dpt., 100,000 lb. frames, covers for Water Service, to E. L. Le Baron Fdry. Co., Brockton, $2,200.

AUTO PLATES, etc.—**Trenton, N. J.**—State Purchasing Agent, State Office Bldg., auto plates of steel, to Budd Mfg. Co., 25th and Huntingdon Park Ave., Phila., Pa., $49,530; chemicals and paints, to DeVoe-Reynolds Co., 933 North Front St., $7,215. Noted Dec. 10.

SIGNAL and TRAIN TRIPPING DEVICE—**Brooklyn, N. Y.** — New York Rapid Transit Corp. (B.M.T. Lines), 385 Flatbush Ave., equipping local tracks with automatic signal and train tripping device on Myrtle Ave. Line—Sand St. to Bway., to General Railway Signal Co., 230 Park Ave., New York. Est. $235,000. Contract awarded subject to approval Transit Comn.

FIRE ALARM EQUIPMENT—**Tulsa, Okla.**—City Comrs., E. Logan, aud., station equipment and 75 alarm boxes, to Gamewell Co., 1238 Chestnut St., Boston, Mass., $101,689; Sect. 1 underground wiring, to Dodge Electric Co., 318 South Boulder St., $42,095; Sect. 2, underground wiring, to Allen Electric Co., Philcade Bldg., $49,074. Grand total $192,858. Est. $240,000. Noted Nov. 12.

PUMPS, etc.—**Cornwall, Ont.**—City Council, turbine pump and auxiliary pump, electric drives, to Babcock-Wilcox and Goldie-McCullough, 64 Grand St., $10,584.

FOREIGN

Argentina, Buenos Aires—Argentine Government, Buenos Aires, soon takes bids 568 ft. steel bridge to replace Alsina Bridge, near here. $1,300,000.

Australia, Melbourne—Jan. 20, by Corporation of Melbourne, City Clerk, ring main metal clad 6,600 volt switchgear; Feb. 3, 6,600 volt totally enclosed metal clad switchgear.

Egypt, Cairo — Feb. 18, by Dpt. Interior, Cairo, supplying, installing diesel engine electric power station with 400 kva. capacity; 1 deep well pump; 3 medium pressure centrifugal pumps; 2 low pressure pumps; 1 priming pump, with electric motors, piping, all accessories.

Mexico, Mexico City—Federal, State and City Governments plan hy. work for 1932, incl. 7,000 mi. primary, secondary roads and bridges. $10,000,000. Engineering Dpt. Mexican Govt., Mexico City, engr.

New Zealand, Wellington—Feb. 23, by Secretary P. Works & Tenders Comn., Dpt. P. Wks., four 1,000 kva. single phase transformers.

Peru, Callao — Peruvian Steamship Co., 67 Wall St., New York, and Callao, Peru, awarded contract dry dock. $200,000, incl. equipment. Contractor's name will be furnished by owner to interested parties.

Commercial Buildings

RESIDENTIAL

BIDS ASKED

Mass., Stockbridge—Owner, c/o R. M. Rice, archt., 33 West 42nd St., New York, bids about Feb. 1. 3 and 4 story, basement hotel. G. M. Strehan, 33 West 42nd St., New York, engr.

Mo., St. Louis—See "Contracts Awarded."

N. Y., Brooklyn—See "Contracts Awarded."

N. Y., Maspeth—See "Contracts Awarded."

N. Y., New York—See "Contracts Awarded."

CONTRACTS AWARDED

Me., Lewiston—J. McCosh, c/o Pulsifer & Eye, archts., 163 Main St., 4 story, basement, brick, steel, plain found., Middle and Lowell Sts., to J. C. Boucher, 697 Sabattus St. Est. $150,000.

Me., Rumford — Rumford Building Assn., c/o Coombs & Harriman, archts., 11 Lisbon St., Lewiston, 3 story, basement, mezzanine, 100 x 100 ft., brick, steel hotel, plain found., Hartford and Congress Sts., to J. H. Kerr, Prospect Ave. $150,000.

Mo., St. Louis—Kaplan-McGowan Co., Franklin-Amer. Trust Bldg., 3 story, basement, rein.-con., brick, stone, on 113 x 177 ft. site, Jamieson and Scanlan Aves., own forces. $150,000.

N. Y., Brooklyn—Avenue P Parkview Corp., J. Perlmutter, pres., 116 Nassau St., New York, 6 story, 90 x 200 ft., Avenue P and West 10th St., separate contracts. $270,000. Kavy & Kavovitt, 350 Stone Ave., archts.

N. Y., Brooklyn—Dranreh Realty Corp., 1148 Boynton Ave., New York, 6 story, 91 x 151 ft., Albany Ave. and St. Johns Pl., separate contracts. $300,000. H. Ginsberg, 205 East 42nd St., New York, archt.

N. Y., Brooklyn—Milberg Constr. Co., 26 Court St., 6 story, 92 x 144 ft., East 23rd St. and Ditmars Ave., separate contracts. $200,000. Cohn Bros., 215 Montague St., archts.

N. Y., Maspeth—C. X. Mathews, Lincoln and Roosevelt Aves., apartment, 79th St. and Elks Rd., separate contracts. $150,000. Private plans.

N. Y., New York—Troppar Constr. Co., 207 West 40th St., apartments and garages, Spuyten Duyvil Dr. and 234th St., separate contracts. $150,000. B. Sorkin, c/o owner, archt.

N. Y., New York—Three Thousand Four Hundred Thirty-Four Knox Place Building Corp., S. Verber, secy., 1663 Eastburn Ave., 6 story, Knox Pl. and Mosholu Parkway, separate contracts. $200,000. Lilien & Lilien, 645 East Tremont Ave., archts.

CLUBS

PROPOSED WORK

Mass., Boston—Women's Council of Boston University, E. Fisk, 135 Winthrop Rd., Brookline, society building, Bay State Rd. $250,000 funds being raised. Architect not appointed.

N. J., Keyport—Y. M. C. A., J. Osborn, chn., 2 story, basement, brick, steel, club, Atlantic St. $150,000. **Maturity indefinite.** Architect not appointed.

Wyo., Ranchester — Big Horn Club of Wyoming, c/o E. F. Redding, archt., 820 12th St., Denver, Colo., 3 and 4 story club house, incl. swimming pool, in Teton Mountains. $200,000.

CONTRACTS AWARDED

Mass., Newton — B.P.O.E., Newton Lodge 1327, 2 story, basement, brick, stone, steel lodge, plain found., to Arlington Constr. Co., 691 Mass. Ave., Arlington. Est. $150,000. Noted Dec. 3.

HOSPITALS

PROPOSED WORK

Mass., Lawrence—City. Bd. Health, revised **plans by Ashton, Huntress & Alter, 477 Essex** St., 2 story, basement, 110 x 115 ft., brick, concrete hospital, concrete found., Marston St. **$150,000 or more.**

Mass., Marblehead—Town, Mary Allen Hos**pital, Hospital Trustees**, Town Hall, sketches by Andrews, Jones, Biscoe & Whitmore, 50 Congress St., Boston, brick, limestone hospital unit. $150,000.

N. J., Plainfield—Muhlenberg Hospital, Park Ave., sketches by Crow, Lewis & Wick, 200 5th Ave., New York, 2 story, basement, brick, steel addition, Park Ave. $150,000. **Maturity indefinite.** Noted Dec. 24.

Ont., Gravenhurst — National Sanitarium Assn., 223 College St., Toronto, plans by Chapman & Oxley, Sterling Tower, Toronto, 2 or 3 story, concrete, brick, stone addition to main building. $200,000.

Ont., Orillia—Ontario Province, Dpt. P. Welfare, Parliament Bldgs., Toronto, 2 or 3 story, basement, girls wing at school of Ontario Hospital, concrete, brick, stone, concrete found. $200,000.

BIDS ASKED

Miss., Jackson—Jan. 9, by State Insane Hospital, c/o State Hospital Removal, Improvement & Land Sale Comm., Doctors Cottages Group 2, superintendents garage, servants house, telephone system, lighting fixtures, accessories, laundry equipment and dryers, at State Insane Hospital, near here. N. W. Overstreet, Mississippi Fire Insurance Bldg., and V. B. Smith, Jr., Gulfport, assoc. archts.

N. J., Newark — Newark Eye & Ear Infirmary, 77 Central Ave., bids about Jan. 23, altering 4 story, basement, brick, steel hospital addition, Central Ave. $150,000. J. H. and W. C. Ely, 15 Washington St., archt.

N. Y., Brooklyn—Dpt. Hospitals, Municipal Bldg., New York, bids about Mar. 1, general contract 4 story, 41 x 137 ft. doctors dormitory, Brooklyn Ave. and Winthrop St., at Kings County Hospital. $185,000. J. E. Kleist, 25 West 45th St., New York, archt. Noted Dec. 31.

O., Cincinnati—Jan. 18, by Comrs. Hamilton Co., 2 story, basement, 49 x 264 ft., new children's T.B. Preventorium, brick, rein.-con., plain found., Guerley Rd., $243,000. Sam Hannaford & Sons, Dixie Terminal Bldg., archts.

Pa., Torrance—Jan. 13, by Commonwealth of Pennsylvania, C. R. McKinnis, supt. Torrance State Hospital, 1 story, brick, steel hospital, dining room and kitchen, on institution grounds. $173,618. B. H. Prack, 119 Federal St., N. S., Pttsburgh, archt. Noted Nov. 27.

CONTRACTS AWARDED

Mass., Fall River—City, 3 story, basement, brick contagious hospital, General Hospital Grounds, to W. E. Sullivan, 972 Main St., $150,000. Noted Dec. 17.

N. Y., Brooklyn—Dpt. Mental Hygiene, State Office Bldg., Albany, general contract hospital group, to Wilaka Constr. Co., 355 East 149th St., New York, $1,647,600; heating, to D. J. Rice, Inc., 41-50 38th St., Long Island City, $156,370; sanitary wor, to P. R. Tully Co., Inc., 403 East 105th St., New York, $129,000; elevators and dumbwaiters, to Otis Elevator Co., 130 Clinton St., $52,333; electrical work, to W. R. Taverner Corp., 51 East 57th St., New York, $151,000. Grand total $2,137,203. Noted Nov. 19.

N. Y., Kings Park — Dpt. Mental Hygiene, State Office Bldg., Albany, general contract continued treatment building, employees' and staff accommodations, service connections (tunnels) Kings Park State Hospital, to D. L. Benstock, 2 West Main St., Bay Shore, $659,500; heating, to L. L. Lewis, 122 East 42nd St., New York, $56,930; sanitary work, to H. Homer & Sons, Inc., 1708 Gravesend Ave., Brooklyn, $43,840; electrical work, to S. W. Hurowitz, 205 East 42nd St., New York, $24,250. Grand total $784,520. Noted Nov. 19.

Ont., Hamilton—W. P. Witton, archt., 7 Hughson St. S., 4 story, basement, concrete, brick, stone, steel maternity building at Mount Hamilton Hospital, to W. H. Cooper, 142 James St. N. Est. $300,000. Noted July 9.

CHURCHES

PROPOSED WORK

Conn., Montville—Memorial Union Baptist Church, R. J. Bates pastor, soon lets contract 1 and 2 story, 55 x 75 ft., stone church. Payne & Keefe, 231 State St., New London, archts.

Mass., Brookline — Harvard Congregational Church, A. G. Leavitt, pastor, 35 Vernon St., plans by Allen & Collens, 75 Newbury St., Boston, and takes bids first week in January, 1 and 2 story, basement, stone, Harvard and Marion Sts. $200,000. Noted Nov. 5.

Mass., Cambridge — St. Peters Episcopal Church, Mass. Ave., sketches by Allen & Collens, 75 Newbury St., Boston, remodeling church, Mass. Ave. $150,000 or more.

Mass., Worcester — Hope Congregational Church, T. Foxall pastor, 3 Homestead Ave., brick, stone church. $150,000. Private plans.

N. H., Hanover—Church of Christ, M. A. Norton, treas., Dartmouth College, rebuilding church. $150,000. Architect not appointed.

N. J., Newark — St. George Green Church, Warwick St., revised plans by F. Nagy & Associates, Bethlehem, Pa., and soon takes bids 2 story, basement, brick, steel church, rectory, Warwick and Lang Sts. $150,000. Former bids rejected. Noted Sept. 24.

Pa., Pittsburgh—Second Presblyterian Congregation, C. E. Miller, chn. building comm., Jenkins Arcade, bids early in 1932, 1 to 4 story, basement, 90 x 180 ft., stone cathedral type church, Sunday school and recreation building, North Ave. and Palo Alto St. $1,000,000. G. E. Savage, Witherspoon Bldg., Phila., archt. Noted Aug. 14.

BIDS ASKED

Conn., Bridgeport—Holy Trinity Church (Greek Orthodox), J. E. Xanthoeoulos, pastor, 1335 Park Ave., refiguring bids 2 story, 56 x 80 ft., brick, limestone, Prospect St. and Myrtle Ave. $150,000. G. L. Glynos, c/o owner, archt. Noted Sept. 10.

Ill., Chicago—Old Roman Catholic Church of St. Anthony, 5101 Lockwood Ave., L. L. Brodowicz, pastor, taking bids 125 x 150 ft. parish house, also church, 700 seating capacity, both brick, stone, 5101 Lockwood Ave. $150,000.

N. J., Orange—Jan. 9, by DePace & Juster, archts., 151 West 46th St., New York, 1 story, basement, balcony, brick, steel church, and rectory, South Centre and Hurlburt Sts., for Our Lady of Mount Carmel, A. Rasi, pastor, 103 South Centre St. $150,000. Noted Dec. 24.

N. J., Roselle — Owner, c/o F. F. Durang, archt., 110 West Dudley Ave., Westfield, bids about Feb. 20, general contract 1 story, basement, 65 x 150 ft., brick, steel church. $150,000. Noted Dec. 10.

N. J., West Orange—Myers & Shanley, archts., 24 Walnut St., Newark, taking bids 1 story, basement, boiler room, brick, steel, church, Beneuvue Ave., Owner c/o architect. $150,000.

SCHOOLS

PROPOSED WORK

Colo., Boulder—Regents of University of Colorado women's dormitory. $600,000. **Maturity in Spring.**

Conn., Bloomfield—Oxford School, W. R. McCain, trustee, private school, Water St. $150,000 or more. Architect not appointed.

Schools (Continued)

Conn., Wethersfield—Town, W. Greer, supt., plans by Ebbets & Frid, 15 Lewis St., Hartford, and takes bids about Jan. 20, 4 room addition to Griswoldville School, 2 room addition to Charles Wright Grade School, addition to high school, Church Pl. $150,000. Noted Dec. 10.

Me., West Pownal—State School, sketches by Coombs & Harriman, 11 Lisbon St., Lewiston, female dormitory. $175,000. Fels Co., 42 Union St., Portland, engrs. Noted Feb. 19.

Md., Baltimore—Mayor and City Council, City Hall, plans by C. N. and N. Friz, Lexington Bldg., 3 story, brick addition to Hamilton School 236.

Md., Baltimore—Mayor and City Council, City Hall, plans by J. A. Ahlers, Centre and Charles Sts., 2 story, brick, 10 room addition to School 68, Lehman St. and Millington Lane.

Mass., Cambridge—Harvard University, A. L. Lowell, pres., sketches by Coolidge, Shepley, Bulfinch & Abbott, Ames Bldg., Boston, Fogg Art Museum addition, College Grounds. $150,000 or more.

Mass., Great Barrington—Town, Junior High School, brick, stone, Bridge and School Sts. $200,000. **Maturity in spring.**

Mass., Peabody—St. Jsoeph's Juniorate, A. Jason, brother, 172 Andover St., plans by M. P. Meade, 80 Boylston St., Boston, 3 story, basement, 80 x 215 ft., 1 story, 28 x 45 ft., and 3 story, basement, 45 x 68 ft., brick, limestone, granite school, Oak Hill. To exceed $150,000. **Maturity indefinite.**

Mass., Reading—Town, Dpt. Schools, Town Hall, plans 6 room addition to Highland School, 14 room elementary school, and smaller elementary school on East Side. $150,000. Architect not appointed.

Mass., Weymouth—Town, P. T. Pearson, supt. schools, 2 story, basement, brick school, Washington and Middle Sts. $150,000—$200,000.

Mass., Worcester—Clark University, 340 Main St., plans by E. Kebbon, 522 5th Ave., New York, and takes bids about March or later, gymnasium and auditorium. $150,000. Noted Oct. 1.

N. Y., Brentwood—Academy of St. Joseph plans by J. E. Kleist Associates, Inc., 25 West 45th St., New York, recreation hall, gymnasium, auditorium, incl. 20 x 60 ft. swimming pool. $1,800,000.

N. Y., Brooklyn—Bd. Educ., 500 Park Ave., New York, plans by W. C. Martin, Flatbush Ave. extension and Concord St., Brooklyn, addition to Manual Training High School, 7th Ave. and 4th St. $960,000.

N. Y., Brooklyn—Bd. Educ., 500 Park Ave., New York, soon takes bids Franklin K. Lane High School. $3,000,000. W. R. Martin, Flatbush Ave. extension and Concord Sts., archt. Noted Oct. 1.

N. Y., New York—New York State Merchant Marine Academy, 80 Center St., marine training base and academy, Fort Schuyler. $1,000,000. **Maturity indefinite.**

N. Y., St. George—Bd. Educ., 500 Park Ave., New York, Curtis High School addition, Hamilton Ave. To exceed $150,000.

Pa., Pittsburgh—Kaiser, Neil & Reid, archts., Keystone Bldg., soon lets contract 2 story, basement, 60 x 147 ft., brick, steel activities building, incl. auditorium, gymnasium, swimming pool, college campus, for Mt. Mercy Academy, 3333 5th Ave. $150,000. Noted Dec. 17.

Pa., Reading—Bd. Educ., O. B. Heim, secy., 8th and Washington Sts., plans by A. F. Smith, 811 Penn. St., 7 story, basement, administration building, 8th and Washington Sts. $150,000.

Tex., Dallas—Bd. Educ., c/o C. M. Moore, plans by M. Lemmon, Constr. Industrial Bldg., and soon takes bids (1st unit) Junior High School, Oak Cliff Addition. $250,000. R. O. Jameson, Southwestern Life Bldg., engr. Noted Sept. 24.

Tex., San Antonio—Bd. Educ., Lavaca and Water Sts., plans by Phelps & DeWees, 619 Gunter Bldg. (Bd. Architects), A. B. and R. M. Ayres, Smith-Young Tower, R. B. Kelly, Milam Bldg. (assoc. archts.), Junior School, 2 story, part basement, 199 x 250 ft., brick, tile, stone, incl. 700 seating capacity auditorium, manual training department, library, art department and classrooms, West Mulberry and West Huisache Sts., Lake and Kampmann Blvds. $300,000. J. W. Simpson, Milam Bldg., engr.

Wis., Menasha—Bd. Educ., C. C. Pierce, chn., plans by Foeller & Schaber, 310 Pine St., Green Bay, rein.-con., brick, steel school. $150,000. Noted Oct. 29.

Wis., Port Edwards—Bd. Educ., F. H. Rosebush, clk., plans by Childs & Smith, 720 Michigan Ave., Chicago, Ill., Senior High School, 4 story, brick, rein.-con. $150,000. Noted Dec. 31.

Ontario—Dpt. Pub. Welfare, Parliament Bldgs., Toronto, plans by own architect, School for Crippled Children, probably 2 story, basement, brick, stone, marble, tile, terrazzo, in province. $250,000.

Ont., Belleville—Dpt. P. Wks. plans by staff architects 2 or 3 story, basement, concrete, stone, brick, steel addition to School for Deaf. $300,000.

Ont., Toronto—City, Bd. Educ., 155 College St., plans by C. E. Dyson, 155 College St., 3 story, basement, brick, concrete, stone, steel new high school, North Toronto, Area. $900,000.

BIDS ASKED

Calif., Los Angeles—Roman Catholic Bishop of Los Angeles and San Diego, taking bids from selected list of contractors 2 story, 24 units and gymnasium, 40 x 200 ft., Class B school, 71st and Hoover Sts. $150,000. Baker & Ott, 346½ South La Brea Ave., archts. Noted May 14.

N. J., Hudson City—Bd. Educ., Administration Bldg., Jersey City, bids about Mar. 1, School 8, 2 story, basement, brick, steel, Sherman Ave. $250,000. J. T. Rowland, Jr., 30 Journal Sq., Jersey City, archt.

N. J., Newark—Bd. Educ., City Hall, bids about Mar. 1, 1 story, brick, steel, rein.-con., addition, to Madison Avenue School, Madison Ave. $150,000. C. R. Bertrand, 222 Market St., archt.

Tex., Austin—Jan. 29, by Bd. Regents, University of Texas, c/o J. W. Calhoun, comptroller, engineering building, $300,000, R. F. Taylor, Santa Fe Bldg., Dallas, mechanical engr., Matthews & Keenan, Smith-Young Tower, San Antonio, structural engrs.; men's dormitory, $200,000, C. L. Kribbs, Jr., South Western Life Bldg., Dallas, mechanical engr., R. L. Rolfe, 1429 Kirby Bldg., Dallas, structural engr.; home economics building, $350,000, R. F. Taylor, Santa Fe Bldg., Dallas, mechanical engr., F. Chappell, 3015 Grand Ave., Dallas, structural engr.; geology building, $300,000, A. Skinner, Fort Worth, mechanical engr., R. L. Rolfe, 1429 Kirby Bldg., Dallas, structural engr.; library, $1,000,000, and physics building, $450,000, C. L. Kribbs, Jr., mechanical engr., and R. O. Jameson, structural engr., both Southwestern Life Bldg., Dallas, Herbert M. Green, La Roche & Dahl, Insurance Bldg., Dallas, archts., for all foregoing projects; 3 and 4 story, brick, stone, rein.-con. students activities buildings, $625,000, R. L. White, c/o University, archt., Matthews & Keenan, Smith-Young Tower, San Antonio, structural engrs. Noted Nov. 26.

CONTRACTS AWARDED

Del., Milton—Delaware School Foundation, School Building Comn., for Milton Dist., c/o H. V. Holloway, Du Pont Bldg., Wilmington, 2 story, basement, brick, steel, rein.-con. grade and high school, plain found., to F. V. Warren & Co., 15th and Locust Sts., Phila., Pa., $167,774; plumbing and heating, to B. F. Shaw & Co., 2nd and Lombard Sts., Wilmington, $11,-

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Schools (Continued)

678; electrical work, to Arrow Electric Co., 5112 Whitby Ave., Phila., Pa., $6,294. Grand total $185,746. Noted Nov. 26.

Mass., Boston — Boston University, 688 Boylston St., reconstructing old Horace Mann School into 3 story, basement, brick college of music, Newbury St., day labor. $150,000. Private plans.

Mass., Norton—Wheaton College, J. E. Park, pres., 3 story, basement, irregular sized, brick dormitory and administration building, plain found., to H. W. Marshal Co., Inc., 522 Harrison Ave., Boston. $150,000 or more. Noted Nov. 19.

Mass., Roxbury (sta. Boston)—City of Boston, Dpt. School Buildings, 2 story, basement, brick, limestone school, plain found., to Matthew Cummings Co., 43 Tremont St., Boston, $182,000. Noted Dec. 17.

N. Y., Corona—Bd. Educ., 500 Park Ave., New York, general contract P.S. 19, to P. J. Murphy Constr. Co., 9232 Union Hall St., Jamaica, $232,200. Noted Dec. 24.

N. Y., Flushing Heights—Bd. Educ., 500 Park Ave., New York, general contract P.S. 163, to Caulway, Inc., 31-30 33rd St., Astoria, $277,000. Noted Dec. 24.

N. Y., Ithaca — Cornell University, 4 story, basement, men's dormitory, native stone, concrete, steel, to Crowell & Little Constr. Co., Hanna Bldg., Cleveland, O. Est. $150,000.

N. Y., Mount Vernon—Bd. Educ., 60 South South 3rd Ave., general contract school addition, to Cuzzi Bros., 10 South 2nd Ave., $614,970. Noted Nov. 26.

Ont., Toronto—University of Toronto, Queens Park, general contract 4 story, incl. basement, brick, stone, concrete hygiene building at University of Toronto, to Sullivan & Fried, 81 Victoria St.; cut stone, to George Oakley & Sons, 357 Logan Ave.; excavation, to Lioni & Co., 69 Prescott Ave.; electric wiring, to Ontario Electric Constr. Co., 66 Temperance St., plumbing and heating, to R. Jordan, 37 Hazelton Ave. Est. $300,000.

THEATRES

PROPOSED WORK

Me., Old Town—Strand Theatre Corp., W. E. McPhee, rebuilding theatre, store and office building, recently destroyed by fire, Water St. $150,000. Architect not appointed.

CONTRACTS AWARDED

Me., Bar Harbor—G. McKay, 243 Main St., 1 story, basement, 75 x 155 ft., concrete theatre, to P. P. Carey Co., 28 Common St., Waterville. Est. $150,000.

BANKS

PROPOSED WORK

Pa., Phila.—Federal Reserve Bank, 10th and Chestnut Sts., sketches by P. P. Cret, Architects Bldg., bank addition, 10th and Chestnut Sts.

CONTRACTS AWARDED

O., Toledo—Toledo Trust Co., J. Rohr, pres., Superior and Madison Aves., altering 4 story bank, to A. Bentley & Sons Co., 201 Belmont Ave. Est. $250,000. Noted Sept. 24.

S. C., Greenville—BLEACHERY and DYE HOUSE—Southern Weaving Co., Greenville, 1 story, 42 x 66 ft., brick, steel, concrete founds., to Gallivan Constr. Co., Greenville.

OFFICES

BIDS ASKED

N. J., Newark—N. Siegler, archt., 164 Market St., bids about Feb. 1, general contract 2 story, basement brick, steel office, store, 55 Market St. Owner, c/o architect. $150,000.

STORES

PROPOSED WORK

Mass., Cambridge—R. B. Whitten, 101 Tremont St., Boston, archt., taking sub-estimates **4 story, basement, 100 x 100 ft.**, brick store, restaurant and office, Boylston St., for Reed Block, Inc., c/o architect. $160,000.

N. J., Elizabeth — L. J. Keimig, archt., 40 Princeton Rd., rejected bids Oct. 20, general contract 2 story, basement, brick, steel store and office building addition, Elizabeth Ave., for Owner, c/o archt. $150,000. **Maturity indefinite.** Noted Oct. 22.

N. J., New Brunswick—J. Lefkowitz, 333 Handy St., rejected bids Nov. 30, 1 story, basement, brick, steel store group, French and New Sts. $150,000. H. G. Bach, 63 Schureman St., archt. Noted Dec. 3.

N. Y., Auburn—W. B. Hislop Co., rebuilding department store, destroyed by fire. $425,000.

N. Y., New York—Emigrant Savings Bank, 51 Chambers St., soon lets general contract altering store, office, 14 East 43rd St. Voorhees, Gmelin & Walker, 101 Park Ave., archt. Noted Dec. 24.

BIDS ASKED

N. J., Newark—E. A. McMurray, archt., 350 Millburn Ave., Millburn, bids about Feb. 14, general contract 2 story, basement, brick, steel store, apartment, 1st Ave., for H. Stevens, 480 Central Ave. Est. $150,000. Noted Dec. 31.

Constr. News page 8

PUBLIC

PROPOSED WORK

Connecticut — COUNTY JAIL — Comrs. Hartford Co., S. H. Graham, County Court, Hartford, county jail in Hartford County. $150,000 or more. Architect not appointed.

Mass., Boston—POLICE STATION, etc.—City, Dpt. Public Buildings, plans by J. M. Gray, 175 High St., and soon takes bids 1 and 2 story, basement, brick, stone, steel, police station, garage, plain founds., Berkley St. and Warren Ave. $300,000. Noted Oct. 22.

Mass., Weymouth—FIRE STATION—Town Bd. Selectmen, central fire station. $150,000. Architect not appointed.

Mass., Winchester—TOWN HALL—Town, Bd. Selectmen, sketches by Derby, Barnes & Champney, 3 Joy St., Boston, altering and constructing 2 story, basement, brick addition, Mt. Vernon St. $150,000.

Mo., Kansas City—COURT HOUSE—Jackson Co., Court House, court house, 12th, 13th, Oak and Locust Sts. $3,500,000. E. F. Neild, Shreveport, La., consult. archt. Noted June 18.

N. J., Hasbrouck Heights—LIBRARY—Bd. Trustees, R. G. Perham, chn., Adminstration Bldg., altering and construcing 2 story, basement, brick steel, addition. $150,000. Architect not appointed.

N. J., Jersey City—MUSEUM—Bd. City Comrs., City Hall, 2 story, basement, brick, steel art museum. $250,000. **Maturity soon.** Architect not appointed.

N. J., Linden—RECREATIONAL—Bd. City Council, City Hall, sketches 2 story, basement, brick, steel, Wood Ave. $150,000. A. E. Cooley, city engr. Architect not appointed. Noted Dec. 24.

N. Y., Elmira — CELL BLOCKS — Commissioner Correction, State Office Bldg., Albany, remodeling interior Cell Blocks A and B, at New York State Reformatory; adv. E. N.-R. Jan. 7. Noted Dec. 17.

N. Y., Jamestown — ARMORY — Adjutant General, Div. Military & Naval Affairs, Capitol, Albany, plans by W. Haugaard, state comr. architecture, State Office Bldg., Albany, armory, Front St. $250,000.

N. Y., New York—COURT HOUSE—S. Levy, Manhattan Boro, Municipal Bldg., central magistrates' court building, incl. jail, $10,000,000.

Ont., Burwash—REFORMATORY — Province of Ontario, Dpt. P. Wks., plans by company's staff architects, 2 or 3 story, basement, concrete, brick, steel, stone reformatory. $250,000 or more.

Ont., Toronto — POLICE STATION — City, plans by J. J. Woolnough, City Hall, 2 or 3 story, basement, stone, brick, concrete found. $171,000.

BIDS ASKED

N. Y., New York—HEALTH—Jan. 18, by Bd. Health, S. W. Wynne, pres., 139 Centre St., health center, 140th St. and Alexander Ave.

CONTRACTS AWARDED

Mass., Norfolk — DORMITORY — Commonwealth of Massachusetts, Dpt. Correction, State House, Boston, Dormitory 2, 3 story, basement, 40 x 275 ft., brick, concrete, at State Prison Colony, to Crane Constr. Co., Inc., 80 Boylston St., Boston. Est. $175,000. Noted Nov. 26.

N. Y., Albion—ATTENDENTS HOME—Commissioner Correction, State Office Bldg., Albany, general contract attendents home, to Dunbar Constr. Co., Ellicott Sq., Buffalo, $69,709; sanitary work, to Barr & Creelman, 74 Exchange St., Rochester, $6,977; heating, to J. E. Reid, 504 Capen Blvd., Buffalo, $6,271; electrical work, to R. E. Tanner, 405 Frost Ave., $2,395. Grand total $85,352. Noted Nov. 26.

N. Y., Peekskill—ARMORY—Adjutant General, Div. Military & Naval Affairs, Capitol, Albany, general contract field artillery State Armory, to LaSala Mason Corp., 51 East 42nd St., New York, $239,300; sanitary work, to Fox Plumbing Co., Inc., 103 Park Ave., New York, $14,498; heating, to Murphy & Beaumont, Inc., 303 West 42nd St., New York, $25,680; electrical work, to Westchester Electric Equipment Co., 73 South Bway., Yonkers, $9,668. Grand total. $343,146. Noted Nov. 26.

UNCLASSIFIED

PROPOSED WORK

Conn., New London—HOME—Smith Memorial Home, 29 Masonic Ave., plans by G. S. Chappell, 101 Park Ave., New York, and Payne & Keefe, assoc. archts., 231 State St., New London, 4 story, brick, steel, Vauxhall and Union Sts. $150,000. Noted Sept. 3.

Conn., New Haven—LABORATORY—John B. Pierce, Foundation, Yonkers, N. Y., sketches by H. L. Quick, 18 Getty Sq., Yonkers, N. Y., 2 story, 45 x 55 ft., brick hygienic laboratory building, Liberty St. and Congress Ave.

Ill., Chicago—EXCHANGE—Holabird & Root, archts., 333 North Michigan Ave., soon lets contract 4 story, basement, 115 x 124 ft., face brick, stone, 1338-48 Monroe St., for Illinois Bell Telephone Co., 212 West Washington St. $400,000.

Mass., Boston—BUSINESS—Boston News Bureau Co., 30 Kelby St., altering and reconstructing 5 story, basement business block, Kelby St. $150,000. Architect not appointed.

Mass., Bridgewater—EXCHANGE—New England Telephone & Telegraph Co., 50 Oliver St., Boston, plans by Densmore, LeClear & Robbins, Park Sq. Bldg., Boston, and soon takes bids 3 story, basement, brick, steel, concrete, plain found. $150,000.

Mass., Worcester—HOME—Scandinavian Society, 89 Lincoln St., sketches by G. Adolph Johnson, 16 Norwich St., brick, steel, Lincoln St. $150,000. Project must await funds. **Maturity late in 1932.**

N. J., Maplewood—COMMUNITY CENTER—Tower Hill Manor Co., L. C. Tower, pres., Wyoming Ave., 2 story, basement, brick, steel, Wyoming Ave. $1,000,000. **Maturity soon.**

N. Y., Brooklyn—HOME—Wartburg Home for Aged & Infirm, 259 Fulton St., home. To exceed $150,000.

O., Columbus—EXCHANGE—Ohio Bell Telephone Co., subsidiary American Telegraph & Telephone Co., 195 Bway., New York, plans by Miller & Reeves, 203 East Broad St., two new telephone exchanges. $225,000. This is part of expansion program plans for 1932, total $3,000,000.

Pa., Oakmont—EXCHANGE—Bell Telephone Company of Pennsylvania, 416 7th Ave., Pittsburgh, J. M. Doremus, engr. of buildings soon lets contract 3 story, basement, 36 x 57 ft., brick, steel, 531 5th Ave. $150,000. J. T. Windrim, 1501 Commonwealth Bldg., Phila., archt.

Pa., Phila.—EXCHANGE—Bell Telephone Co., 1835 Arch St., plans by J. T. Windrim, 1201 Chestnut St., 3 story, basement exchange building, Frankford Ave. and St. Vincent St.

R. I., Wickford—POLICE BARRACKS—State, Dpt. State Police, New Industrial Trust Bldg., Providence, sketches by Jackson, Robertson & Adams, Turks Head Bldg., Providence, brick police barracks. $50,000.

Ont., Hamilton—PIPE LINE, etc.—Shell Oil Co. of Canada, 919 Federal Bldg., Toronto, pipe line and additional tankage. $50,000. Private plans. Noted Dec. 10.

BIDS ASKED

N. Y., Bedford Hills—EMPLOYEES, etc.—Jan. 14 (extended date) by Commissioner Dpt. Correction, State Office Bldg., Albany, completing employees building, laundry building, storehouse, New York State Reformatory for Women; adv. E. N.-R. Jan. 7. Noted Dec. 24.

Industrial Buildings

FACTORIES AND MILLS

PROPOSED WORK

Calif., San Francisco — DAIRY PLANT — Dairy Delivery Co., 3550 19th St., subsidiary Borden Milk Co., 350 Madison Ave., New York, plans specially designed milk distribution plant on 150,000 sq.ft. site Potrero Ave. between 25th and Army Sts. $500,000.

Ind., Indianapolis—PLANT—Acme-Evans Co., 852 Washington Ave., expending $100,000 rebuilding plant, incl. equipment. Private plans.

Ia., Dubuque—PLANT—Maizewood Products Corp., soon takes bids rebuilding plant, destroyed by fire. $150,000. Private plans.

La., Harvey—PLANT—Continental Can Co., Pershing Sq., New York, plans by Favrot & Livandais, Hibernia Bldg., New Orleans, plant addition. To exceed $100,000.

Me., Biddeford—TEXTILE MANUFACTURING—Saco-Lowell Shops, 147 Milk St., Boston, Mass., altering textile manufacturing plant incl. consolidating Newton Upper Falls, Mass., plant with Biddeford plant. To exceed $40,000. Work will probably be done by day labor.

Mass., Fall River—PLANT—J. L. Clemmy Co., rebuilding plant, recently destroyed by fire. $40,000 or more. Architect not appointed.

Mass., Quincy — FACTORY — Campbell Machine Co., 39 Hayward St., altering and constructing factory addition. $40,000 or more. Private plans.

N. J., East Rutherford—FACTORY—East Rutherford Syringe Co., 75 Mozart St., revised sketches by J. T. Camlet, 26 Piaget Ave., Clifton, 2 story, basement, brick, steel, 54 Mozart St. $50,000. Noted Aug. 12.

N. Y., Brooklyn—LAUNDRY—General Linen Supply Co., 835 Myrtle Ave., bids after Feb. 1, general contract 4 story, Stockton St. and Marcy Ave. $175,000. M. Marlo, 200 Beverly Rd., archt. Noted Dec. 24.

N. Y., New York — MANUFACTURING — Vincent Astor, 44 East 14th St., sketches by Berlinger & Kaufman, 232 Madison Ave., altering manufacturing and storage building, incl. esculator 1st, 2nd, and 3rd floors, create openings protected by rolling shutters to adjoining building at cellar, 45 East 13th St. $40,000.

N. Y., New York—PAINT PLANT—John Lucas & Co., 521 Washington St., paint plant or re-equipping building to be acquired. To exceed $40,000.

N. Y., Woodhull—GAS PLANT—New York Central Electric Corp., 12 Bway., Hornell, gas plant and distribution extensions, Pub. Serv. Comn. approved petition.

Pa., Phila.—ABATTOIR—Stadler Eng. Co., engrs., 140 Liberty St., New York, soon let contract 1 and 2 story, 72 x 148 ft., concrete, rein.-con., brick, plain found., 35th and Reed Sts., for United Butchers Abattoir Co., A. Monk, pres., 3055 Ludlow St., $200,000.

Pa., Washington—PLANT—W. H. Young, archt., 30 West Chestnut St., soon lets contract 1 story, 20 x 27½ ft. and 14 x 90 ft. and 44 x 90 ft. addition, also alterations, incl. raising roof, new roof, lining interior with white enameled brick, other miscellaneous alterations, rear 9 North Ave., for A. and P. Cleaners & Dyers, D. Reshick, prop., 9 North Ave. $40,000.

Factories and Mills (Continued)

Tenn., London — HOSIERY MILL — C. C. Bacon Co. plans by W. H. Sears, James Bldg., Chattanooga, 1 story, 100 x 170 ft., brick. $40,000. Noted Nov. 27.

Tex., Corpus Christi—PACKING PLANT—California Vegetable Products Corp., 220 Front St., Burbank, Los Angeles, Calif. (1st unit) 1 and 2 story, 90 x 180 ft., rein.-con., brick dehydrated vegetable products plant, plain found. Private plans.

Va., Martinsville — KNITTING MILLS — Pannill Knitting Co., sketches 150 x 160 ft. knitting mills. To exceed $40,000.

Wis., Oshkosh—CANDY FACTORY—Gunz-Durber Candy Co., 19 Marion St., plans by Auler-Jenssen, Oshkosh, brick, steel factory.

N. B., St. John—PLANT—Federated Ore & Refineries Ltd., sketches plant. $100,000.

Ont., Kitchener—BREWERY—Huether Brewing Co., King St. W., W. Renaud, mgr., plans by W. H. Schmalz, 129 King St. W., altering and constructing 4 story, 40 x 50 ft., brick addition, incl. installation, special equipment, malt mill, mash tubs, brew kettles, cooling room and beer tanks. $50,000.

Ont., Sarnia—FACTORY—Baker Perkins Co., Saginaw, Mich., factory to manufacture baking confectionery, incl. machinery.

Que., St. Lambert—PLANT—L. E. Waterman Fountain Pen Co. Ltd., St. Lambert, Que., and 191 Bway., New York, addition. To exceed $40,000.

BIDS ASKED

Mass., Boston—LAUNDRY—Jan. 12, by City, Hospital Dpt., 2 story, brick, steel, plain found., at City Hospital, Harrison Ave. $50,000. J. H. Ritchie & Associates, 250 Stuart St., Boston, archts. Noted Aug. 20, under "Hospitals."

Mass., Reading—FACTORY—Ace Art Co., 12 Gould St., taking bids altering and constructing 1 and 2 story, brick, steel addition, concrete found., Gould St. $40,000. Former bids rejected. D. J. Abrahams, 260 Tremont St., Boston, archt. Noted Dec. 3.

N. J., Newark—REFINERY PLANT—A. Peter, archt., 207 Market St., taking bids general contract 2 story, basement, brick, steel, cement block refinery plant, for owner, c/o archt. $40,000.

N. J., Newark—FACTORY—Owner, c/o R. C. Klemm, archt., 944 Broad St., bids about Feb. 1, general contract 1 story, basement, brick, steel, Oxford St. $40,000. Noted Dec. 10.

N. J., Plainfield—BAKERY—C. C. Bell, archt., 8 South Ave., Cranford, bids about Mar. 1, general contract 1 story, basement, brick, steel, concrete bakery plant, for owner, c/o arch. $40,000. Noted Dec. 3.

Tex., Rio Grande City—REFINERY PLANT—See "Contracts Awarded."

CONTRACTS AWARDED

Conn., Bridgeport—PLANT—Park City Ice Co., 558 Howard Ave. 2 story, 45 x 60 ft., brick, steel, Howard St., to Patsy Frank, Inc., 1438 Main St., $40,000. **Maturity in spring.**

Mass., Everett—DYE HOUSE PLANT—Boston Dye House, Inc., 1911 Revere Beach Parkway, altering and constructing 1 story, brick, steel addition, plain found., to Canter Constr. Co., 6 Beacon St., Boston. Est. $40,000. Noted Dec. 10.

Ind., Indianapolis—PLANT—Shell Petroleum Co., 2219 West Michigan St., general contract additional pumps, storage tanks, pump house, brick, steel, to Krebay Constr. Co., 802 New City Trust Bldg. Est. $40,000.

Ia., Cedar Rapids—FACTORY—T. M. Sinclair Co., repairing factory, incl. rein.-con. floor, other structural repairs, 3rd St. and 16th Ave., to M. Mildenstein, Merchants Natl. Bank Bldg. Est. $62,000.

Mass., Boston — PLANT — Brighton Dressed Meat Co., 39 Commercial St., 2 story, brick, manufacturing plant addition, to H. L. Hauser Building Co., Inc., 31 Bay St., Dorchester. Est. $40,000. Noted Dec. 10.

Mass., Fitchburg—BAKERY—C. P. Dickinson, 336 Main St., altering and constructing 2 story, brick, steel addition, plain found., to W. J. Handley Co., 280 Main St. $40,000.

N. J., North Bergen—DAIRY PLANT—Gussaroff & Ellman Dairy Co., 1902 Park Ave., Weehawken, general contract 2 story, basement, brick, steel dairy and creamery plant, 39th St., to Bonanno Bros., 182 Bergen Turnpike. Est. $40,000.

N. J., North Bergen—GAS MANUFACTURING PLANT—Commercial Gases Co., Inc., c/o North Jersey Industrial Terminal Co., 1827 Bergen Turnpike, 2 story, basement, brick acetylene gas manufacturing plant, 39th St., to Bonanno Bros., 1827 Bergen Turnpike, North Bergen. Est. $40,000.

Tex., Rio Grande City—REFINERY PLANT—Rio Oil & Gas Co., 350 bbl. daily capacity oil refinery plant, day labor. $75,000. Private plans. Noted Dec. 3.

Vt., Proctor—PLANT—Vermont Marble Co., 1 story, brick, marble finishing plant, to Sawyer Constr. Co., 31 St. James Ave., Boston, Mass. Est. $50,000.

Wash., Tacoma — FACTORY — Northwest Brewing Co., 105 East 26th St., 6 story, basement, 35 x 130 ft., concrete, 107 East 26th St., to R. M. Grant, 414 South I St., $40,000.

GARAGES

PROPOSED WORK

Calif., Long Beach—City Council soon takes bids general contract utility building, Bway and Pacific Sts. $90.00. Dedrick & Bobbe, 901 Hartwell Bldg., archts. Noted Dec. 24.

Mass., Middleton—Essex County Comn., Court House, Salem, plans by Ashton, Huntress & Alter, 477 Essex St., Lawrence, 2 story, basement, brick service building at County Sanitorium. $40,000.

Mass., Springfield—Goodyear Tire & Rubber Co., 1144 East Market St., Akron, O., 1 story, concrete, steel auto service station, Main and Gardner Sts. $40,000 or more. Private plans.

N. J., Rutherford—Jersey City and Lyndhurst Bus Co., M. Englander, in charge, 270 Oriental Pl., Lyndhurst, 2 story, basement, brick, steel garage and bus terminal. $150,000. Architect not appointed.

N. Y., Brooklyn—Brooklyn and Queens Transit Corp., 385 Flatbush Ave. extension, plans by C. W. Burke, 3859 Flatbush Ave. extension, 1 story, 34 x 190 ft. metal car laundry, Commercial St. and Manhattan Ave.

N. Y., New York—John Bradley, Inc., 19 Beach St., plans by J. C. Hankinson, 74 Varick St., 75 x 100 ft. service garage, 555 Greenwich St. Noted Dec. 31.

N. Y., New York—S. P. Emory, 277 Bway., plans by J. M. Baker, 9 Jackson Ave., Long Island City, 1 story, 48 x 100 ft. gas station and service, Westchester and Metcalf Aves.

Pa., Washington—R. G. Dickson, archt., 6028 Center Ave., Pittsburgh, taking bids preliminary estimates 1 story, 70 x 120 ft., brick, steel garage, rear South Main St., for Washington Hotel Co., J. E. Lindsey, mgr., Washington Hotel.

BIDS ASKED

Mass., Danvers—See "Contracts Awarded."

Miss., Jackson—See "Hospitals."

N. J., East Orange—K. W. Dalzell, archt., 263 Central Ave., bids about Feb. 21, general contract 2 story, basement, brick, steel garage, showrooms, for Owner, c/o architect. $150,000. Noted Dec. 24.

N. Y., Brooklyn—Refined Macaroni Co., 421 Rodney St., taking bids 37 x 100 ft. service garage, shop equipment, Hope and West Rodney Sts. Laspia & Samenfeld, 217 Havermeyer St., archts.

N. Y., Brooklyn—See "Contracts Awarded."

CONTRACTS AWARDED

Calif., San Diego—Southern California Telephone Co., 740 South Olive St., Los Angeles, 1 story, 100 x 200 ft., rein.-con. garage, steel sash, metal doors, sprinkler system, 10th Ave. and G Sts., to W. E. Kier Constr. Co., 813 1st Natl. Bank Bldg. Est. $45,000.

Conn., New Haven—Auto Electric Sales & Service Co., Inc., 267 Park St., brick, concrete auto service station, Goffe and Sperry Sts., to National Constr. Co., 152 Temple St. Est. $40,000. Noted Dec. 10.

Mass. Danvers—Lyons Bros. Garage, Inc., High St., altering and constructing 1 story, brick, stone, steel service garage addition, plain found., separate contracts. $40,000. Sanborn & Weed, 38 Exchange St., Lynn, archts.

N. Y., Brooklyn — Realty Associates, 162 Remsen St., 3 story, basement, brick, steel service garage, Brighton Beach Ave. and West Calm St., separate contracts. $100,000. **Maturity about May.** B. Driesler, Jr., 153 Remsen St., archt. Noted Dec. 24.

Pa., Phila. — Philadelphia Savings Fund Society, 12th and Market Sts., 3 story, basement service garage, repair shop, to G. A. Fuller Co., Morris Bldg. Est. $250,000.

SHOPS AND FOUNDRIES

PROPOSED WORK

N. Y., Brooklyn—RAG SHOP—D. Galo, 102 Frost St., 1 story, 50 x 100 ft. rag shop, Frost and East Leonard Sts. $40,000. **Maturity soon.** Laspia & Samenfeld, 217 Havermeyer St., archts.

N. Y., Jamaica—REPAIR SHOP—M. Moncrief, 110-31 153rd St., sketches 1 story, 38 x 100 ft., brick, concrete, 111th Rd. and 153rd St. Private plans.

N. Y., Long Island City—SHOPS—G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., completed plans 40 x 170 ft. frame service and repair shops, 32nd Ave. and Downing St.; 20 x 86 ft. frame storage shed at Beach Channel Dr. and Beach 116th St., at 20 x 86 ft. frame storage shed, Cornish Ave. and Queens Blvd.

Pa., Altoona—SHOPS—Pennsylvania R.R. Co., Broad St. Sta., Phila., T. J. Skillman, ch. engr., rebuilding 3 and 5 story, brick, steel, concrete buildings incl. Shop 2, tank shop, machine shop, bolt shop, etc., opposite passenger station. $1,500,000.

Pa., Vandergrift—SHOPS—West Leechburg Steel Co., N. Jones, supt., rebuilding carpenter and box shops, recently destroyed by fire. $100,000. Private plans. $100,000.

Wis., Manitowoc—REPAIR SHOP, etc.—Manitowoc Co., c/o E. Berkedal, comr., plans by Smith & Brandt, Odd Fellows Bldg., Appleton, 1 story, basement, 70 x 300 ft., brick, steel rein.-con. repair shop and heating plant. $40,000. Noted Dec. 10.

POWER PLANTS

PROPOSED WORK

Colorado—Southern Colorado Power Co., c/o W. N. Clark, genl. mgr., Pueblo, power plant and transmission line in Pueblo and Arkansas Valley. $158,016.

Colo., Grand Junction — Pub. Serv. Co. of Colorado, c/o C. N. Stannard, vice pres., 15th and Champa Sts., Denver, hydro-electric plant on Colorado River on Archard Mesa, near here. $200,000. **Maturity in 1932..**

Ia., Logan—Business Men's League, E. D. Black, mgr., sketches power and light plant.

Mich., Detroit—Detroit Edison Co., 2000 2nd St., Detroit, Mich., and 60 Bway., New York, expending $9,000,000 during 1932, for electric power expansion and extensions in Detroit and State of Michigan.

N. Y., Corinth—International Paper & Power Co., 220 East 42nd St., New York; ultimate 300,000 hp. hydro-electric power development, near here. Acquiring flowage and other rights in progress. $15,000,000. **Maturity indefinite.**

N. Y., Pavilion—Pavilion Natural Gas Co., gas distribution system and natural gas production. To exceed $40,000.

Ore., Medford—California Oregon Power Co., subsidiary Standard Gas & Electric Co., 111 Bway., New York, power plants, here and vicinity. $1,000,000.

Tennessee—Tennessee Electric Power Co., 540 Market St., Chattanooga, controlled by Commonwealth & Southern Corp., 20 Pine St., New York, expending $2,000,000, on construction work during 1932.

BIDS ASKED

Calif., Seal Beach—See "Contracts Awarded."

CONTRACTS AWARDED

Calif., Seal Beach—Los Angeles Gas & Electric Co., 810 South Flower St., Los Angeles, new unit to house turbo-generator of same capacity as now in use, own forces under owners construction department. $3,500,000. **Maturity in March or April.** Noted Dec. 24.

Ia., West Bend—City Council, power plant improvements, incl. 210 hp. Diesel engine, changing plant from direct current to alternating current, to Fairbanks, Morse & Co., 9th and Harney Sts., $41,260. Noted Dec. 10.

Pa., Cresson—Commissioners of Pennsylvania State Tuberculosis Sanitarium, general contract boiler plant improvements and construction, to Berkebile Bros., Swank Bldg., Johnstown, $8,456; mechanical contract to E. Keeler Co., Williamsport, $33,907; service lines, to Harry Daugherty & Son, Freeport, $8,546. Grand total $50,909. Noted Dec. 3.

WAREHOUSES

PROPOSED WORK

Calif., San Diego—Bekins Van & Storage Co., 1335 South Figuerora St., Los Angeles, plans by F. E. Barton, Crocker Bldg., San Francisco, 6 story, rein.-con. Class A warehouse, El Cajon Ave. near 37th St. $100,000.

Calif., Upland—Upland Lemon Growers Assn. plans by W. W. Ache, 1616 4th St., 2 story, basement, 140 x 200 ft. lemon storage building, rein.-con., steel, concrete, cork insulation, 4th Ave. and A St. $90,000. Another storage building will be erected on site within a year.

Colo., Grand Junction—Denver & Rio Grande Western R.R. Co., Equitable Bldg., Denver, A. O. Ridgway, ch. engr., c/o S. J. Pyeatt, pres., rebuilding ice storage plant, destroyed by fire. $50,000.

Mass., Boston—Standard Oil Co. of New York, Park Square Bldg., Boston, oil storage plant, East Boston. To exceed $40,000. Private plans.

Mass., Boston—Tichner Bros., Inc., 1 University Rd., Cambridge, reconstructing warehouse, 274 Franklin St. $40,000 or more. Architect not appointed.

N. J., Port Newark—Sears, Roebuck & Co., H. L. Harris, c/o Home Constr. Div., Arthington and South Homan Sts., Chicago, Ill., plans storage, terminal and plant additions, at Port Newark branch. To exceed $1,000,000. **Maturity indefinite.**

N. Y., Avon—P. L. Zifka, altering knitting mills into storage, display rooms, and service of trucks and tractors.

N. Y., Canastota—Canastota Refrigerating Co., Canastota, c/o F. Hill, North Rose, plans rebuilding yeast and vinegar plant for cold storage. $40,000.

N. Y., Hudson—Superintendent Standards & Purchase, State Office Bldg., Albany, general contract storehouse and dairy barn at New York State Training School for Girls, to F. E. Antolick, Schaghticoke, $79,990; heating, to J. E. Harbikson, 213 Union St., Schenectady, $3,780; sanitary work, to Gartham & McFarland, 136 North St., Rochester, $3,064; electrical work, to Electrical Service Co., 212 East 45th St., New York, $2,903. Grand total $89,737. Noted Oct. 29.

N. Y., White Plains—E. F. Keating Co. Pipe Bending & Supply Co., 452 Water St., New York, reequipment former Brockway motor plant, for use as distribution, storage and showrooms, steam heating and plumbing business. $120,000.

Ont., Hamilton—Shell Co. of Canada Ltd., Federal Bldg., Toronto, oil and gasoline distributing plant, 1st units, incl. 950,000 gal. storage tank, steel on concrete found., loading warehouse, garage, concrete, brick, Ottawa and Burlington Sts. $50,000. Private plans.

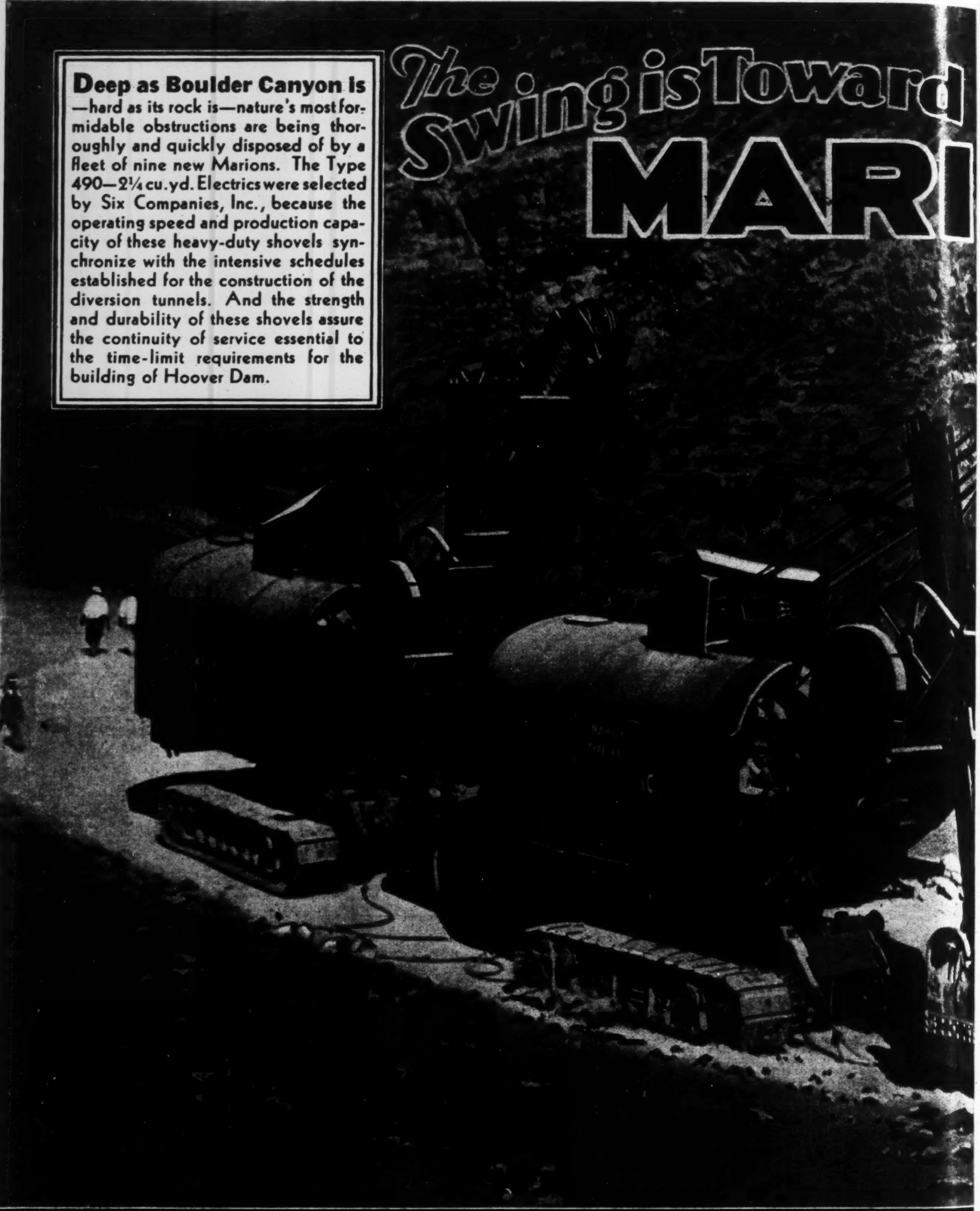
BIDS ASKED

Mass., Charlestown — See "Contracts Awarded."

CONTRACTS AWARDED

Mass., Charlestown—Kalman Steel Corp., 75 Federal St., Boston, 2 story, steel special warehouse, Rutherford Ave., day labor. $40,000. Private plans.

See proposal advertising on page 130



Deep as Boulder Canyon is —hard as its rock is—nature's most formidable obstructions are being thoroughly and quickly disposed of by a fleet of nine new Marions. The Type 490—2¼ cu. yd. Electrics were selected by Six Companies, Inc., because the operating speed and production capacity of these heavy-duty shovels synchronize with the intensive schedules established for the construction of the diversion tunnels. And the strength and durability of these shovels assure the continuity of service essential to the time-limit requirements for the building of Hoover Dam.

THE MARION STEAM SHOVEL

NEW YORK — PHILADELPHIA — CHICAGO — ATLANTA —

CONSTRUCTION NEWS

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Some of the Week's Large Projects

For further details turn to appropriate sections in this issue

Location	*Project*	*Cost*	*Status*
Waterworks			
Cleveland	Intake tunnel	$2,000,000	Proposed
Sewers			
East Chicago (Ind.)	Sewage system and disposal plant	1,000,000	Proposed
Railways			
New Jersey	Railway	1,268,994	Contract
Materials			
Indiana	Cement	2,200,000	Bids asked
Federal Government			
Columbus (O.)	Post office and Federal building	2,275,000	Proposed
Ft. Worth (Tex.)	Federal building	1,215,000	Proposed
Factories and Mills			
Los Angeles	Automobile plant	2,000,000	Proposed
Buildings			
Brooklyn	Hospital	3,000,000	Proposed
Jersey City	Medical building	1,000,000	Proposed
Windsor (Ont.)	Federal	1,000,000	Proposed
Chicago	College	1,000,000	Proposed
Aurora (N. Y.)	College	1,000,000	Proposed
Bayside (N. Y.)	High school	2,000,000	Proposed
New York	Printing trades school	1,000,000	Proposed
New York	High school	2,000,000	Proposed
Bellaire (N. Y.)	High school	2,000,000	Proposed
Montreal (Que.)	Reform school	1,000,000	Proposed
Toronto (Ont.)	Office	1,500,000	Contract

WATERWORKS

PROPOSED WORK

Ill., Collinsville — City Council killed proposition for waterworks, incl. new well, 900 to 1,000 g.p.m. electric driven well pump, well and pump house building, 500,000 gal. rein.-con. reservoir, c.i. suction main and 20 in. c.i. force main. $168,000. Kinsey Eng. Co., Marshall Bank Bldg., Pekin, engrs. Noted Dec. 17.

Mich., Marquette—City Council, J. F. Anderson, city purch. agt., soon takes bids power transmission line from municipal power plant to waterworks, installing 3 new electric pumps to replace old steam pumps, other waterworks improvements. $50,000. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, Ill., engrs. Noted Oct. 29.

N. Y., Far Rockaway—J. J. Dietz, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, well drilling for 10 m. g.p.d. emergency water supply.

N. Y., Pelham—Village, W. M. McBridge, mayor, municipal owned water supply, Pelham Heights. To exceed $15,000. **Maturity indefinite.** Supply now purchased from private company.

O., Cleveland—Company forming concrete intake tunnel probably 6 mi. long to supply water line to industrial plants along the Cuyahoga River in the "Flats" Dist. $2,000,000. E. B. Thomas, 4614 Prospect Ave., engrs.

O., Orrville—Bd. Control purchasing new steam turbine and other improvements to municipal water and light plant. $42,000 will be expended for turbine and auxiliary equipment. Total $72,000. O. C. Steiner, Orrville, engr.

BIDS ASKED

Kan., Osawatomie—See "Contracts Awarded."

Md., Baltimore—Jan. 20, by Bd. Awards, furnishing, erecting pumping equipment for Pikesville Automatic Pumping Station. L. Small, Municipal Bldg., water engr.

N. J., Paterson—Jan. 19, at the office Passaic Valley Water Comn., 156 Ellison St., 200,000 gal. storage tank. A. T. Cook, engr.; adv. E.N.-R. Jan. 14.

N. Y., New York—Jan. 27, by Bd. Water Supply, 346 Bway, New York, forty-three 48 in., twenty 36 in., two 16 in., three 8 in., one 6 in., and thirty 5 in. bronze gate valves; one 36 in. and one 24 in. bronze flap valves; seventeen 6 in. bronze check valves for City Tunnel 2. Contr. 234.

CONTRACTS AWARDED

Conn., Shelton—State Water Comn., State Office Bldg., Hartford, 100,000 gal. elevated hemispherical bottom, steel water tank, at Laural Heights Sanatorium, to Pittsburgh Des Moines Steel Co., Neville Island, Pittsburgh, Pa., $7,950. Noted Dec. 17.

Kan., Osawatomie—City will install 7,000 ft. c.i. mains in West Highland Sect., day labor.

Mass., Boston — Commonwealth of Massachusetts, furnishing, constructing of 2 pumping units, Pumping Station 1, Chestnut Hill, to Warren Steam Pump Co., 101 Milk St., $64,199.

SEWERS

PROPOSED WORK

Ind., East Chicago — Bd. P. Wks., relief sewerage system, disposal plant. $1,000,000. Consoer, Older & Quinlan, Inc., 205 West Wacker Dr., Chicago, engrs. Noted Jan. 8.

N. J., Hackensack—Hackensack Valley Sewage Comn., reported favorably on trunk sewerage line extending from New York State line through Bergen and Hudson Counties and recommends legislation to authorize construction. $23,000,000. T. Wasser, engr. Hudson Co., Jersey City.

N. Y., Freeport—Village, H. E. Pearsall, clk., vitr. tile and c.i. sewers in Lateral Sewer Dist. 5, incl. Sunrise Hy., 3rd, Neva and 2nd Pls., Center, Lexington, Pine, Porterfield, Madison, South Bayview, 2nd, Merrick, West Merrick, Juanita, Moody, Park, Sweezy, Stokes, Smith, Elm, Rose, Frankel, Archer, Morton, Southside, West End, Atlantic, Elliott, Locust, Onslow, Morris, South Long Beach, Miller, South Brookside, Riverside, and Roosevelt Sts. $303,600. Baldwin & Cornelius Co., Inc., 117 Sunrise Hy., Freeport, and Clyde Potts, 30 Church St., New York, engrs.

N. Y., Greenburgh—Town, preliminary plans sewers in Parkway Gardens and Parkway Homes, near North White Plains. $80,000. Hearing on formation of above sewer dist. set for Feb. 4. J. N. Heeney, 161 Main St., White Plains, engr.

Wis., Green Bay—Green Bay Metropolitan Sewerage Com., J. Servotte, secy., 915 Doty St., forming district, incl. city of Green Bay, towns of Preble and Allouez. $750,000. Jerry Donohue Eng. Co., 608 8th St., Sheboygan, engrs.

BIDS ASKED

N. Y., Attica—Jan. 26, at office Dpt. Correction, State Office Bldg., Albany, completing Contr. 797, sewers and water lines, $21,126; constructing sewers and water lines, at Attica State Prison, $73,779. W. J. Thayer, Jr., comr.; adv. E. N.-R. Jan. 14.

Wis., Sheboygan—See "Contracts Awarded."

CONTRACTS AWARDED

New York—Westchester Co. Sanitary Sewer Comn., White Plains, Sect. R, Mamaroneck Project, to Inter County Constr. Corp., 17 Sylvan Pl., Rye, $118,289. Noted Dec. 3.

N. Y., New York—S. Levy, pres. Manhattan Boro, Municipal Bldg., sewers in 10th Ave., to Murphy & Richman, 50 Court St., Brooklyn, $141,477. Noted Nov. 19.

O., Columbus—City, R. S. McPeak, acting dir. Serv., 6,100 ft. 108 in. concrete storm sewer with regulator chamber, connecting sewers, manholes, etc., 70,600 cu.yd. earth trenching, 390,000 lb. reinforcing bars, 7,000 sq.ft. liner plates, Contr. 8, Olentangy-Scioto Intercepting Sewer, to J. Nadalin & Co., 38 South 6th St., $191,797. Noted Nov. 12.

Pa., Lancaster—T. W. Metzger, mayor, City Hall, Unit 3, Little Conestoga Sewage Pumping Station, Contrs. 32 and 33, to Angelo Lucenti, 7630 Meade St., Pittsburgh, $9,410; Contrs. 34, 35, 36, 37, 38 and 40, and Contr. 45, to Frank George, 1657 Mahoning Ave., Youngstown, O., $159,000 and $8,700 respectively; Contr. 39, to Malone & Sons, Lancaster, $10,240; Contr. 41, to V. Di Francesco, Llanerch, $46,725; Contrs. 42 and 44, to D. S. Warfel Co., Lancaster, $1,495; Contr. 43B, to Conestoga Electric Co., Lancaster, $620. Grand total $236,190. Noted Dec. 10.

BRIDGES

PROPOSED WORK

Iowa—See "Streets and Roads."

BIDS ASKED

Kansas—See "Streets and Roads."

Maryland—Jan. 26, by State Roads Comn., G. C. Uhl, chn., Baltimore, concrete floor for double 102 ft. more or less span bridge now under construction, Contr. A-118-64—concrete floor for single 86 ft. 6 in. span bridge now under construction, Contr. A-119-62, both Allegany Co.—structural steel superstructure for single 200 ft. span bridge, Contr. AA-133-87, Anne Arundel Co.—concrete floor for single 100 ft. span bridge now under construction, Contr. H-142-44—concrete floor for single 80 ft. span bridge now under construction, Contr. H-143-44, both Harford Co.; adv. E.N.-R. Jan. 14.

Ohio—Jan. 22, by O. W. Merrill, dir. State Hy. Dpt., Columbus, one 17.5 ft. and two 14.3 ft. span concrete beam bridge, two 3.5 ft. sidewalks, 70 ft. steel I-beam bridge, 30 ft. roadway, two 3.5 ft. sidewalks, approaches, over Chagrin River, Sects. "B" and "C" Painesville-Euclid Rd., Lake Co. $98,477.

Ohio—Jan. 22, by O. W. Merrell, dir. hys., Columbus, bridges in Allen, Belmont, Butler, Champaign, Columbiana, Crawford, Erie, Fulton, Geauga, Hancock, Huron, Jackson, Jefferson, Ottawa, Paulding, Preble, Putnam, Richland, Sandusky, Shelby, Wood, Seneca, Van Wert, Wayne, Williams and Wyandot Counties. $617,014.

O., Niles—Feb. 2, by Bd. Comrs. Trumbull Co. (Warren), 55 ft. and 70 ft. span, 1,200 ft. steel, rein.-con. bridge, South Main St. $500,000. Wendell P. Brown Co., 750 Prospect Ave., Cleveland, engrs.

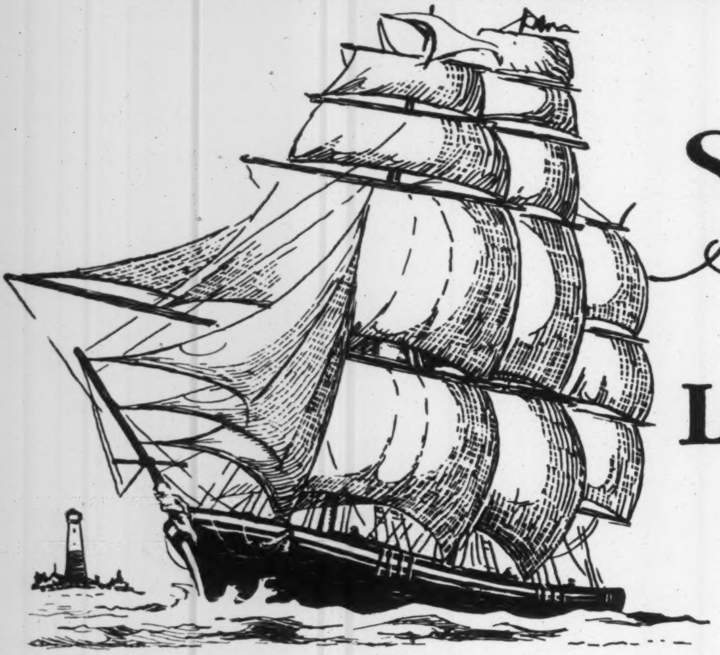
Texas—Jan. 18, by G. Gilchrist, state hy. engr., Austin, 2 concrete deck girder bridges, Hy. 4, Real Co., $40,000—2 rein.-con. deck girder bridges, Hy. 36, Austin Co., $25,000—2 rein.-con. deck girder bridges, Hy. 27, Pecos Co., $60,000—thirty-one 28 ft. 6 in. span, concrete, steel I-beam stringer bridge over Yegua Creek, Hy. 36, Burleson and Washington Counties, $30,000—steel, concrete bridge over Salt Fork of Brazos River, Hy. 120, Young Co., $90,000.

Iowa—Jan. 19, by State Hy. Comn., Ames, 60 x 20 ft. pony truss bridge, one 40 x 24 ft. and one 31 x 24 ft. I-beam bridges, 27 culverts, Rd. 46 east of Manning, F.A.B. 334, Carroll Co.—18 box culverts, extensions, 14 concrete pipe culverts, also raising, widening 26 x 20 ft. concrete girder bridge, Rd. 7, F.A.B. 330 Dallas Co.—raising extending 50 x 24 ft. I-beam bridge, F.A.B. 284 Winneshiek Co.—14 culverts, Rd. 148, B-708 Adams Co.—grading, drainage structures 6.336 mi. F-334

See proposal advertising on page 50

LEADITE

Trade Mark Registered U.S. Pat. Office



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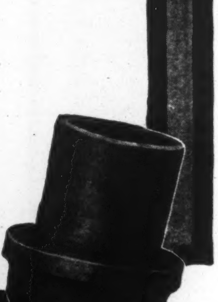
PHILADELPHIA, PA.

No Caulking



Bridges (Continued)

Carroll Co.—gravel surfacing 5.312 mi. U.S. Rd. 169. P-681 Humboldt Co. B. Johnson, chn.

New Jersey—Feb. 1, by State Hy. Comn., Trenton, bridge over Hudson River Traction Co. and Pleasant Ave., on Route 2, Sect. 6, Rochelle Park and Paramus Boros, Bergen Co.; bridges over N.Y.S. & W. R.R., Route 2, Sect. 6, Rochelle Park, Bergen Co. A. L. Grover, ch. engr.; adv. E.N.-R. Jan. 14.

Texas—Jan. 19, by G. Gilchrist, state hy. engr., Austin, steel bridge over Guadalupe River, Guadalupe Co., $100,000—six rein.con., steel girder bridges, and seven concrete box culverts, Jeff Davis Co., $40,000—rein.-con. girder bridge over Sandy Fork Creek Bottom, Gonzales Co., $25,000.

Wash., Seattle—Jan. 29, by Bd. P. Wks., City Hall, widening from 41 to 58 ft. University Bridge over Lake Union; making permanent present pile and timber trestle approaches with steel and concrete; also temporary single leaf span plate girders, timber trestle and plank decks to be constructed, 40 ft. east of present bridge. $675,000. D. W. McMorris, 1513 3rd St. W., Seattle, engr.

CONTRACTS AWARDED

Illionis—See "Street and Roads."

New York—Dpt. P. Wks., State Office Bldg., Albany, Cohoes-Waterford Bridge, Albany and Saratoga Counties, to Bates & Rogers, 75 West St., New York, $191,000. Est. $268,000. Noted Dec. 3.

Ohio—O. W. Merrell, dir. hys., Columbus, 55 ft. span concrete steel beam bridge, 29 ft. roadway, two 2.5 ft. sidewalks, Sect. "Wilmington" Georgetown-Wilmington Rd., Clinton Co., to H. R. Grandle, Leesburg, $11,918—two 25 ft. span concrete slab and girder bridge over Little Leading Creek, Sect. "Rutland" Pomeroy-Jackson Rd., Meigs Co., to Finlaw Constr. Co., Pomeroy, $19,277—42 ft. span creosoted timber bridge with steel stringers, 24 ft. roadway over Bartlett Run, Sect. "B" Zanesville-Irville Rd., Muskingum Co., to McGreagor & Shipps, West Lafayette, $10,939—60 ft. span concrete bridge with steel beams, 29 ft. roadway over Little Yankee Creek, Sect. "P" Youngstown-Sharon Rd., Trumbull Co., to Wertz Constr. Co., Scofield Bldg., Cleveland, $12,465. Grand total $54,599. Noted Dec. 24.

Ohio—O. W. Merrell, dir. hys., Columbus, three 45 ft. span concrete beam bridge over Mill Creek, 24 ft. roadway and 20 ft. span concrete slab bridge, 30 ft. roadway, Sect. "A-2" Jefferson-Madison Rd., Ashtabula Co., to Garrett Eng. & Constr. Co., Erie Bldg., Cleveland, $28,860—36 ft. span concrete beam bridge, 24 ft. roadway, approaches over Sugar Camp Run, and 19.5 ft. span concrete slab bridge extension, new 24 ft. roadway, over Dry Run, 13.92 ft. span concrete slab bridge extension, new 24 ft. roadway over Stonelick Run, Sects. "L" and "N" "N-1," Milford-Hillsboro Rd., Clermont Co., to Newberry Constr. Co., 3335 Spokane St., Cincinnati, $14,563—18 ft. span, 70 ft. from curb to curb, concrete slab bridge over Camp's Run and 10 x 5 x 65 ft. box culvert over Learado Run and box culvert extension, Sect. "C" Milford-Vera Cruz Rd., Clermont Co., to J. R. Jurgesen, Cincinnati, $11,835—two 36 ft. span, concrete beam bridge, 44 ft. roadway, approaches over Timkers Creek, Sect "J" Cleveland-East Liverpool Rd., Summit Co., to Louis Crano, Inc., 206 Crosby St., Akron, $27,836—8 x 10 x 120 ft. concrete box culvert, approaches, Sect. "Crown City" Ohio River Rd., Gallia Co., to N. B. Putnam, Fort Wayne, Ind., $8,470. Grand total $91,564. Noted Dec. 10.

West Virginia—State Roads Comn., Charleston, superstructure Hog Island Bridge 1207, Project 3467, Webster Co., and superstructure Caldwell Bridge 1280, Project 140-E Greenbrier Co., to N. H. Clark, Luray, Va., $17,172 and $39,548 respectively—Loman Bridge 1300, Project 3489 Hampshire Co., to Davids & Reynolds, Morgantown, $12,854 — superstructure Cheat Bridge 1297, Project 151-F Preston Co., to T. A. Loving & Co., Goldsboro, N. C., $39,594—substructure Hog Island Bridge 1207, Project 3467 Webster Co., to Clark & Lewis, Luray, Va., $9,666—grading, drainage structures 1.4 mi. Flat Top Yards-Wolf Rd., Project 3482-B Mercer Co., to Clinch Valley Constr. Co., Tazewell, Va., $26,866. Grand total $145,700. Noted Dec. 24.

STREETS AND ROADS

PROPOSED WORK

Iowa—State Hy. Comn., Ames, plans during 1932, maintenance work on 8,313 mi. roads, $3,100,000; building 1,400 mi. roads, $11,031,000, incl. concrete paving 198 mi. $5,156,000, grading, culverts, bridges 355 mi. $4,475,000, gravel surfacing 719 mi. $164,000. B. Johnson, chn.

Kansas — State Hy. Comn., Topeka, plans grading, culverts 635 mi. roads, gravel or bituminous surfacing 875 mi., hardsurfacing 100 mi. roads during 1932. $2,899,066. W. V. Buck, hy. engr.

Missouri — State Hy. Comn., Jefferson City, tentative program for 1932, includes grading, bridging 72.94 mi. $464,461—grading, bridging, graveling 1,795.6 mi. roads $16,857,142—oiling or graveling 237.72 mi. roads $617,236—grading, bridging, concrete paving 235.69 mi. roads $9,058,893—concrete paving 142.31 mi. roads $3,411,082—bituminous surfacing 3.68 mi. roads $40,805—bridges $328,317. Total $30,778,472.

BIDS ASKED

Illinois—Jan. 20, by State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, widening, concrete and bituminous filled brick on concrete surfacing 0.48 mi. Route 6, Dist. 1, Sect. LW, 18 ft. and two at 9 ft. wide, Kane Kane Co. F. T. Sheets, hy. engr.

Iowa—See "Bridges."

Kansas—Jan. 19, by State Hy. Comn., Court House, Parsons **(K.P. means Kansas Project and F.A.P. Federal Aid Project)**, chat surfacing 9 mi. K.P. 3-4, F.A.P. 1249—3 mi. K.P. 3-2, F.A.P. 7519—4 mi. K.P. 39-8, F.A.P. 7520, all Bourbon Co—10 mi. K.P. 54-32, F.A.P. 7524 Greenwood Co.—3 mi. K.P. 39-7, F.A.P. 7521 Neosho Co.—8 mi. K.P. 54-33, F.A.P. 7525 Woodson Co.—sand gravel or chat surfacing 13 mi. U. S. Hy. 50S-35, F.A.P. 7523—5 mi. U. S. Hy. 50S-36, F.A.P. 7522, both Coffey Co. —grading, drainage structures, culverts 5.851 mi. K.P. 160-41, F.A.P. 282-C, Labette Co., incl. four 30 ft. and three 35 ft. deck girder spans—one 140 ft. and one 130 ft. marsh arch span, 2 four 25 ft. deck girder span bridge, K.P. 75-5, F.A.P. 23-A Montgomery Co. W. V. Buck, Topeka, hy. engr.

Kansas—Jan. 20, by State Hy. Comn., Court House, Garden City, grading, drainage structures, culverts 31.863 mi. U. S. Hy. 50N-6, Federal Aid Project 359B, Finney Co., also seven 9 ft. and twelve 8 ft. multiple box spans, five 30 ft. deck girder spans. W. W. Buck, Topeka, hy. engr.

Massachusetts—Jan. 19, by Dpt. P. Wks., State House, Boston, A. W. Dean, engr., bituminous macadam paving 13,278 ft. hy., incl. 740 ft. rein.-con. viaduct, and substructure for steel bridge, Westfield and West Springfield.

Mo., Independent — Jackson Co., Court House, indefinitely postponed bids to have been opened Jan. 19, paving Toyman, Sterling Ash Ave., Sugar Creek and Courtney Rds., pending sale of bonds. Noted Jan. 7.

Texas—Jan. 18, by G. Gilchrist, state hy. engr., Austin, grading, drainage structures 4.621 mi. hy. Freestone Co., $26,000—9.999 mi. Pecos Co., $52,000—12.682 mi. Austin Co., $40,000—grading, drainage structures, bituminous on caliche base surface treating 16.907 mi. hy. Concho Co., $170,000, all foregoing 26 ft. wide—grading, drainage structures 7.046 mi. Real Co., 20 ft., $40,000—1 in. two course limestone rock asphalt surface treating 11.367 mi. De Witt Co., $36,000 —Caliche base course surface treating 21.272 mi. Jim Wells Co., $74,000, both 18 ft. wide.

Texas—Jan. 19, by G. Gilchrist, state hy. engr., Austin, gravel base course surfacing 14.654 mi. hy. Hall Co., $64,000—triple asphalt on Caliche base course surfacing 10.471 mi. Upton Co., $64,000, both 18 ft. wide—grading, drainage structures 2.84 mi. Brazos Co., $48,000 —10.899 mi. Pecos Co., $66,000—11.434 mi. San Patricio Co., $64,000—9.971 mi. Haskell Co., $36,000, all foregoing 26 ft. wide—Caliche and crushed limestone base course surfacing 7.041 mi. De Witt Co., 18 ft. $25,000.

Tex., Sinton—Bd. Supervs. San Patricio Co. soon takes bids grading, drainage structures 11.434 mi. Federal Aid Project 886-F, Unit 1 on Hy. 9, $88,900. T. E. Huffman, 1403 Nixon Bldg., resident engr.

CONTRACTS AWARDED

Calif., Los Angeles—Bd. P. Wks., City Hall, grading, drainage structures, sidewalks, sewers, lighting conduits and posts, 166 tons asphaltic concrete wearing surface, 233 tons asphaltic concrete base, 269,621 sq.ft. 7- to 8-in. compressed concrete surfacing, 32,053 sq.ft. oil surfaing streets in Venice Blvd. and West Blvd. Impvt. Dist., to J. Papac, 726 North Hill St., $154,479.

Illinois—State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, concrete surfacing 0.65 mi. Route 21, Sect. 5VX Lake Co., to E. H. Herrick, West McHenry, $12,887—0.37 mi. Route 46, Sect. 463Y1, Cook Co., to Airey Constr. Co., Oak Park, $22,493—4.24 mi. Route 83, Sect. 132 Henry and Knox Counties, and 5.6 mi. Route 116-A, Sect. 102 Marshall Co., to Henkel Constr. Co., Mason City, Ia., $61,993 and $84,853 respectively—9.71 mi. Route 120, Sect. 113 De Witt Co., to Hartman-Clark Bros. Co., Peoria Life Insurance Bldg., Peoria, $63,134—8.08 mi. Route 130, Sect. 112, Cumberland Co., to Granite Bituminous Paving Co., Railway Exch. Bldg., St. Louis, Mo., $103,844, all above roads 18 ft. wide—one 39 ft. and four 26 ft. span rein.-con. girder bridge, Route 127, Sect. 105VB Montgomery Co., to Harvey L. Roberts, Rushville, $13,883. Grand total $363,087. Owner furnishes cement. Noted Nov. 12.

Michigan—H. W. Hagaman, div. engr., 504 Eddy Bldg., Saginaw, widening grade, concrete surfacing 2.313 mi. FO25-21C-3, Genesee Co., for State Hy. Comn., Lansing, to J. A. Mercier Co., 450 West Fort St., Detroit, $61,105. Noted Dec. 3.

N. Y., New York—S. Levy, pres. Manhattan Boro, Municipal Bldg., granite paving West St., to St. George Paving Co., 415 Lexington Ave., $31,408—asphalt paving Cedar St., to Meehan Paving Co., 90 West St., $4,934—West 187th St., to L. DeMinna, 2366 Lorrilard Pl., $6,022. Grand total $42,364. Noted Dec. 17.

N. Y., New York—S. Levy, pres. Manhattan Boro, Municipal Bldg., asphalt Paving Avenue D and Amsterdam Ave., to Meehan Paving Co., 90 West St., $31,509 and $49,346 respectively.

Ohio—O. W. Merrell, dir. hys., Columbus, grading, draining, brick paving 0.477 mi. Sect. "A" Toledo-Detroit Rd., 40 ft. wide, 0.639 mi. 20 ft. wide, and constructing 20.43 ft. span concrete slab bridge, 52 ft. roadway on same road, to G. L. LaBoiteaux, 4926 Lewis St., Toledo, $105,289.

West Virginia—See "Bridges."

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

CONTRACTS AWARDED

Calif., Los Angeles — Los Angeles Co. Flood Control Dist., outlet tunnel at San Gabriel Dam, incl. 1,000 ft. 16 ft. diam. tunnel, 6,000 cu.yd. untimbered, 400 cu.yd. timbered tunnel, 3,400 cu.yd. excav, open cut approaches at portals, to N. I. Fadel, 7827 South Harvard Blvd., $27,000.

Bond Elections

Coming Bond Elections

Sewage Disposal Plant—Sandstone (P. O. Richmond), Va., Jan. 28, $50,000.

Electric Lighting System—University City, Mo., Feb. 2, R. Toensfeldt, c/o Wells Eng. Co., St. Louis, engr. $500,000.

School—Valley Stream, N. Y., Hempstead School Dist. 24, Jan. 25, $275,000.

Bonds Voted

Sewers—Burlington, Vt., $135,000.

Court House—Tillamook County, Ore., $177,500.

Bonds Defeated

Waterworks and Distribution System and Sewers—Deepwater, Mo., $52,000.

Sewers and Disposal Plant—Battle Creek, Mich., $200,000.

Sewage Disposal Plant — Washington, Mo., $80,000.

Light and Power Plant—Jellico, Tenn., $150,000.

Waterworks, Sewers and Paving—Vancouver, B. C., $750,000.

FEDERAL GOVERNMENT

PROPOSED WORK

Calif., Sunnyvale—PLANTS—Spec. 6706—Yards & Docks, Navy Dpt., Wash., D. C., soon takes bids helium and boiler plant buildings, medium pressure helium storage structures, concrete chimney tunnel, inverted syphon, and gas holder foundation at Naval Air Station. Noted Jan. 7.

Miss., Vicksburg—WIRE ROPE—U. S. Eng., Box 667, rejected bids Dec. 28, steel wire rope. Will readvertise. Noted Dec. 24.

New Jersey—DREDGING—U. S. Eng., Army Bldg., Whitehall St., New York, surveys dredging New Jersey Ship Canal from Bordentown on Delaware River to Morgan, at Raritan Bay; test borings, to P. J. Healey, 25 Church St., New York.

N. Y., Dansville—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by C. A. Carpenter, 14 Franklin St., Rochester, U. S. Post Office. $145,000.

N. Y., Flushing—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., selected J. D. Baum, archt., Waldo Ave. and West 244th St., New York, to design 2 story U. S. Post Office, on 150 x 200 ft. site, Main and Sanford Sts. $750,000. W. Knowles, 1 Bridge Plaza, Long Island City, assoc. archt.

O., Columbus—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., sketches by Richard, McCarty & Bulford, 584 East Broad St., U. S. Post Office and Federal Building. $2,275,000. Noted Oct. 8.

Tex., Fort Worth—FEDERAL—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Federal Building, 10th and Lamar Sts., $1,215,000. Preliminary plans approved. W. G. Clarkson, 1st Natl. Bank Bldg., archt. P. Cret, Architects Bldg., Phila., Pa., assoc. archt. Noted Sept. 3.

BIDS ASKED

Alabama—FOUNDATION—Jan. 29, by U. S. Eng., Mobile, diamond or shot core drilling for subsurface investigation of foundation at dam site, Warrior River.

Ala., Fort McClellan—STABLE—Feb. 9, at office Con. Q.M., stable and utlities.

Calif., Sunnyvale — WATER TANK — Spec. 6758—Jan. 27, by Yards & Docks, Navy Dpt., Wash., D. C., 200,000 gal. steel water tank on 100 ft. steel tower at Naval Air Station.

Colo., Boulder—POST OFFICE—Feb. 3, by Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, extending U. S. Post Office.

D. C., Wash.—AIR CORPS BARRACKS—Jan. 28, at office Constr. Q. M., Bolling Field, constructing 1 air corps barracks.

D. C., Wash.—LIBRARY—Jan. 19 (extended date), at office D. Lynn, archt. of Capitol, addition to Library of Congress. Noted Dec. 3.

Illinois—EARTHWORK—Jan. 27, by U. S. Eng., 428 Customhouse, St. Louis, Mo., 1,355,000 cu.yd. earthwork for rebuilding, enlarging levee of Big Swan Drainage and Levee Dist., Scott Co., on Illinois River; adv. E. N.-R. Jan. 14. Noted Jan. 7.

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Federal Government (Contniued)

Ill., Ottawa—EXCAVATING, etc.—Feb. 10, by U. S. Eng., 1st Chicago Dist., 333 North Michigan Ave., Chicago, excavating, dredgnig 210,000 cu.yd. earth and 166,000 cu.yd. rock, place measurement from Starved Rock Pool, on Illinois River, near here; adv. E.N.-R. Jan. 14.

La., New Orleans—SPRAY BOAT—Feb. 10, at office U. S. Engineer, 1st New Orleans Dist., Poland and Dauphine Sts., steel, non-propelled spray boat; adv. E.N.-R. Jan. 14.

Mass., Gloucester—POST OFFICE—Feb. 3, by Treas. Dpt. at office Sup. Archt., Wash. D. C., post office; adv. E. N.-R. Jan. 14. Noted Apr. 9.

Mich., Frankfort — BREAKWATER and DREDGING—Feb. 4 by U. S. Eng., Milwaukee, Wis., north breakwaetr and shore connection, removing old north pier and dredging at Frankfort Harbor; adv. E. N.-R. Jan. 14. Noted Dec. 24.

N. J., Lakehurst—CELL SHOP—Spec. 6455—Jan. 15, by Yards & Docks, Navy Dpt., Wash., D. C., gas cell shop and storage building at Naval Air Station. Noted Jan. 7.

N. Y., Canandaigua—GARAGE—Jan. 26, by Vet. Bu., Arlington Bldg., Wash., D. C., Garage Building 16, U. S. Veterans' Hospital.

N. Y., Fort Jay—APARTMENT—Feb. 9, at office Coa. Q.M., 39 Whitehall St., New York, officers' apartment building; adv. E. N.-R. Jan. 14.

O., Athens — POST OFFICE — Jan. 29, by Treas. Dpt., at office Sup. Archt., Wash., D. C., remodeling, enlarging post office; adv. E.N.-R. Jan. 14.

Ore., Bend—POST OFFICE—Feb. 9, by Treas. Dpt. at office Sup. Archt., Wash., D. C., post office; adv. E.N.-R. Jan. 14.

Pa., Allentown—EXCAVATION, etc.—Jan. 21, by Treas. Dpt. at office Sup. Archt., Wash., D. C., excavating and concrete founds. for U. S. Post Office. Total cost $820,000. Noted Nov. 5.

Tex., Randolph Field (San Antonio)—COOLING STATION—Jan. 22, by A. W. Parker, capt., furnishing, installing cooling station for administration building, for U. S. Govt.

Va., Norfolk—DREDGING—Feb. 10, at U. S. Engineer Office, 962,662 cu.yd., place measurement, in 40 ft. channel in Norfolk Harbor; adv. E.N.-R. Jan. 14.

Wis., Algoma—PIERS—Feb. 10, by U. S. Eng., Milwaukee, 1,948 lin.ft. concrete superstructure on curb and pile piers at Algoma Harbor; adv. E.N.-R. Jan. 14. Noted Dec. 24.

W. Va., Huntington—COVER PLATES—Jan. 18, by U. S. Eng., structural steel cover and 72 hinge plates, for Locks 15, 20, 23, and 26, Ohio River.

W. Va., Huntington—MOTOR TRUCK—Jan. 20, by U. S. Eng., motor truck.

T. H., Fort Shafter—SHOP BUILDINGS—Jan. 18, by Con. Q. M., Constructing Div., Q. M. utilities shop building, Q. M. combined garage and shop, combined fire station and guard house, parachute building, paint, oil and dope house, dispensary building and radio building at Wheeler Field, Schofield Barracks.

T. H., Oahu—Spec. 6714—Feb. 17, by Yards & Docks, Navy Dpt., Wash., D. C., concrete wharf, incl. railroad trestles, at Naval Ammunition Depot.

CONTRACTS AWARDED

Ala., Montgomery—APRONS, etc.—Con. Q. M. Maxwell Field, rein.-con. aprons, drains in Maxwell Field, to Van Gordon Constr. Co., Jacksonville, Fla., $46,830. Noted Nov. 26.

D. C., Wash.—WALKS, etc.—Treas. Dpt. at office Sup. Archt., walks, light standards, foundations, to Brady Bros., Wash., D. C., $19,143.

Ill., Cairo—PILING DIKES—U. S. Eng., 428 Custom House, St. Louis, Mo., 4,000 ft. pile clump dikes in Mississippi River, at Rockwood and Crain Island, above Cairo, to Patton Tully Transportation Co., Memphis, Tenn., $156,555. This corrects report in Dec. 31 issue.

Kan., Atchison—DIKES—U. S. Eng., Kansas City, 12,105 ft. standard pile clump dikes in Missouri River at Rushville Bend between here and St. Joseph, Mo., to Wickham Bridge & Pipe Co., Council Bluffs, Ia., $294,285. Noted Oct. 29.

Kan., Leavenworth — ADMINISTRATION HOME—Vet. Bu., Arlington Bldg., veterans' administration home, to J. A. Holpuch, 4010 Madison St., Chicago, Ill., $788,600; plumbing, heating and electrical work, to P. H. Meyer, 635 South Preston St., Louisville, Ky., $183,890. Noted Nov. 5.

La., Harvey—FIXED IRONS, etc.—U. S. Eng., 1st New Orleans Dist., Poland and Dauphine Sts., New Orleans, fixed irons, gates and operating machinery for Harvey Lock, to Hardie-Tynes Mfg. Co. Co., 400 East 28th St., Birmingham, Ala., $193,775. Noted Nov. 19.

La., New Orleans—QUARANTINE STATION—Treas. Dpt., at office Sup. Archt., additional buildings at U. S. Quarantine Station, to T. A. Pittman, Inc., New Orleans, $26,346. Noted Dec. 3.

Mass., Rutland Heights—HOSPITAL—Vet. Bu., Arlington Bldg., Wash., D. C., U. S. Veterans' Hospital, to W. O. Thurston, 301 South 4th St., Richmond, Va., $222,700. Noted Sept. 3.

Missouri—DIKES—U. S. Eng., Kansas City, 2,900 lin.ft. at Eureka and Marion Bends, to R. P. Potashnick, Cape Girardeau, $46,015; 7,400 lin.ft. at Gasconade River Bend, to Austin Bridge Co., 1813 Clarence St., Dallas, Tex., $251,062. Noted Oct. 22.

Mo., Chamois — DIKES — U. S. Eng., 700 Postal Telegraph Bldg., Kansas City, 10,060 lin.ft. standard pile clump dikes in Missouri River at Portland Reach, to G. W. Condon Co., 223 Grain Exch. Bldg., Omaha, Neb., $269,048. Noted Oct. 29.

Mo., Kansas City — DIKES — U. S. Eng., Kansas City, 1,750 ft. at Nigger Bend, to E. L. McCain, Shreveport, La., $52,395.

Mo. Rocheport—CLUMP DIKES, etc—U. S. Eng., 700 Postal Telegraph Bldg., Kansas City, 7,810 lin.ft. dikes and 2,000 lin.ft. levee work at Diana Bend North River, to Woods Bros. Constr. Co., 133 South 13th St., Lincoln, Neb., $218,444. Noted Nov. 5.

Mont., Butte—EXTENDING, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., extending and remodeling U. S. Post Office and Court House, to A. M. Lundberg, Railway Exch. Bldg., St. Louis, Mo., $241,000. Noted Nov. 26.

N. H., Exeter—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., 1 story, basement, brick, stone, to T. Perrone, Inc., 1026 Main St., Hartford, Conn., $55,200. Est. $90,000. Noted Dec. 3.

New Jersey — DREDGING — U. S. Eng., Wilmington, Del., 95,000 to 100,000 cu.yd. Raccoon Creek, to Delaware Dredging Co., 139 South 3rd St., Phila., Pa., at $0.22 per cu.yd. Noted Nov. 26.

New Jersey — DREDGING — See "Proposed Work."

N. Y., Buffalo—DREDGES—U. S. Eng., repairing U. S. Dredge "Burton" and Dredge "Taylor," to Toledo Shipbuilding Co., 2247 Front St., Toledo, O., $121,300 and $41,233 respectively. Noted Dec. 18.

N. Y. New York—DREDGING—U. S. Eng., Army Bldg., Whitehall St., 59,530 cu.yd. rock and 15,500 cu.yd. material other than rock in Middle Ground, East River, to Arundel Corp., Pier 2, Pratt St., Baltimore, Md., $236,529. Noted Nov. 19.

Oregon—ROAD—Pub. Rds., clearing, 18,277 mi. Diamond Lake Hy., Douglas Co., to C. R. Johnson, Inc., Exchange Bldg., Portland, $21,810.

R. I. Newport—HEATING—Yards & Docks, Navy Dpt., Wash., D. C., elevator at Naval Hospital, to Otis Elevator Co., 810 18th St. N. W., Wash. D. C., $5,396. Noted Mar. 12.

R. I., Newport—PASSENGER ELEVATOR—Spec. 6560—Yards & Docks, Navy Dpt., Wash., D. C., passenger elevator, to Otis Elevator Co., 810 18th St. N. W., Wash., D. C., $5,396. Noted Sept. 3.

Tex., San Antonio—ROOFING—Con. Q. M. Duncan Field, 300,000 sq.ft. asbestos roofing for engineering shops, to H. J. McMullen Co., Bedell Bldg., San Antonio, $34,000.

Wash., Yakima — VALVES — Bureau Reclamation, Denver, Colo., two 132 in. butterfly valves with operating mechanism to Hardie-Tynes Mfg. Co., 800 North 28th St., Birmingham, Ala., $13,850.

RAILWAYS

PROPOSED WORK

New Jersey—Bd. State Public Service Comrs., Trenton, recommended consolidation of subsidiaries of Pennsylvania R.R., T. J. Skillman, ch. engr., Broad St. Sta., Phila., Pa., and Reading R.R. Co., C. Dillenbeck, ch. engr., Reading Terminal, Phila., Pa., operating in Southern New Jersey. Project would involve railroad construction and eliminating of grade crossing construction work. Survey and report by Fisk & Roberts, engrs., 82 Beaver St., New York.

BIDS ASKED

New York—Jan. 19, at office Dpt. Correction, State Office Bldg., Albany, furnishing, delivering materials for railroad tracks at Great Meadow Prison, Comstock. W. N. Thayer, Jr., comr.

CONTRACTS AWARDED

New Jersey—At office J. T. Congleton, dir. Dpt. P. Affairs, City Hall, construction Sect. 2 of city railroad on bed of Morris Canal from Washington St. to Raymond Plaza W., etc., in Newark, to I. R. Steers, Inc., 17 Battery Pl., New York, $1,268,994. Noted Nov. 12.

SUBWAYS AND TUNNELS

PROPOSED WORK

New York—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, preliminary plans completed and detailed working drawings not prepared 15 track miles Liberty Ave.-105th Ave., Brinkerhoff-Hollis Ave. Line, from Lefferts to Springfield Blvds., incl. branch to Jamaica Ave. "L," $10,700,000; 4.6 track mi. 137th St.—Van Wyck Blvd. Line, 87th Ave. to Rockaway Blvd., $6,600,000, all Queens Co.

GRADE CROSSINGS

PROPOSED WORK

New York—Long Island R.R. Co., A. C. Watson, ch. engr., Penn. Sta., New York, carrying Commonwealth Ave. over tracks, Queens Co. To exceed $25,000.

N. Y., Amity—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., plans approved by Pub. Serv. Comn., and takes bids eliminating Whitcomb Crossing. exceed $25,000.

N. Y., Brooklyn—New York Rapid Tr Co. (B. M. T. Lines), 385 Flatbush Ave., g elimination to carry 17th Ave. and 37th over tracks. $60,000. General plans appro by Transit Comn.

N. Y., Brooklyn—New York Rapid Tra Co. (B.M.T. Lines), 385 Flatbush Ave., al ing existing grade separation Sterling Pl. S 000. Detailed plans and estimates appro by Transit Comn.

N. Y., Colonie—New York Central R.R. F. B. Freeman, ch. engr., 466 Lexington A New York, altering structure carrying S St. over tracks, Albany Co. To exceed $25,0

N. Y., Hoosick—Boston & Maine R.R. W. J. Backes, ch. engr., Boston, Mass., pla estimates and specifications approved by P lic Serv. Comn., and soon takes bids eliminat Pease Crossing. $95,000.

N. Y., New York—New York Central R Co., F. B. Freeman, ch. engr., 466 Lexing Ave., altering existing grade crossing structu West 184th St. $148,000.

N. Y., New York—New York, Westchester Boston R.R. Co., subsidiary New York, N Haven & Hartford R.R. Co., E. E. Oviatt, engr., New Haven, Conn., plans grade separati by extending new street over tracks at Ha mersley and Fenton Aves. To exceed $40,0 Project awaits outcome of pending litigation.

N. Y., Pittsford—New York Central R.R. C F. B. Freeman, ch. engr., 466 Lexington Av New York, plans approved by Pub. Serv. Comn eliminating Clover St. grade crossing, Monr Co. To exceed $25,000.

Tex., Houston—City, c/o W. E. Monteith mayor, 1,700 ft. rein.-con. underpass, with 3 ft. roadway, two 4.5 ft. sidewalks und Missouri-Pacific R.R., on Texas Ave. J. M Nagle, city engr.

Tex., Houston—Harris Co., c/o H. L. Washburn, aud., preliminary plans 3 underpasses, on on Westheimer Rd., one on Market St., oth on Bellaire Blvd. C. R. Haile, Houston, co. eng

BIDS ASKED

N. Y., Amherst—See "Contracts Awarded."

Ohio—Jan. 22, by O. W. Merrell, dir. hy Columbus, concrete and steel grade separatio to consist 24 ft. span concrete slab bridge, 3 ft. roadway, and 54 ft. center span, concret bridge with steel stringers, 43 ft. approa spans, 24 ft. roadway, relocation and **(a)** bri or **(b)** concrete paving Sect. "C" Hamilton-Eaton Rd., Preble Co., **(a)** $189,996 (b) $155,024.

CONTRACTS AWARDED

N. Y., Amherst—Lehigh Valley R.R. Co., G T. Hand, ch. engr., 143 Liberty St., New York eliminating Getzville Rd. Crossing, day labor $75,000. Pub. Serv. Comn. approved. Noted Dec. 18.

N. Y., Binghamton—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., test borings for grade eliminating program, to Osborne Drilling Co., 70 East 45th St., New York, at $2.50 per lin.ft. Pub. Serv. Comn. authorized awarding of contract.

N. Y., Hillburn—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., test borings for eliminating grade crossing, to Osborne Drilling Co., 70 East 45th St., New York. Preliminary plans completed.

POWER AND LIGHTING

PROPOSED WORK

D. C., Wash.—Chesapeake and Potomac Telephone Co., 725 13th St. N. W., subsidiary American Telephone & Telegraph Co., 195 Bway., New York, plans expending $16,000,000 during 1932, for new construction in District of Columbia, Maryland, Virginia, and West Virginia.

Iowa and Missouri—Missouri Power & Light Co., 740 Bd. of Trade Bldg., Kansas City, Mo., scheduled for its 1932 program 100 mi. high tension line from Keokuk Dam on the Mississippi River at Keokuk, Ia. to Mexico, Mo., to form junction with power line from Mexico to Jefferson City, Mo.

Mich., Marquette—See "Waterworks."

BIDS ASKED

Del., Wilmington—See "Power Plants."

N. Y., Dongan Hills—Jan. 19, by J. G. W. Greeff, comr. Hospitals, Municipal Bldg., New York, installing complete fire alarm system in buildings New York Farm Colony. C. B. Meyers, 31 Union Sq. W., New York, archt.

N. Y., Fair Haven—See "Contracts Awarded."

CONTRACTS AWARDED

Colo., Colorado Springs—City Council, 14,300 ft. pipe line trench from distribution reservoir to high mesa near Garden of the Gods to north end of city, to J. S. Schwartz, Colorado Springs, $20,886; furnishing pipe and fittings, to Colorado Fuel & Iron Co., Boston Bldg., Denver, $60,000. Noted June 25.

N. Y., Fair Haven—Lake Ontario Power Co., Sodus, granted permission by Public Serv. Comn., to establish electric system, and exercise frachises, work by day labor and separate contracts.

PARKS AND SPORTS

PROPOSED WORK

N. Y., New York—S. Levy, pres. Manhattan Boro, Municipal Bldg., soon takes bids public baths, 165 East 120th St. and Sylvan St. $450,000. C. B. Meyers, 31 Union Sq., archt.

N. Y., New York—Dpt. Parks, Arsenal Bldg., Central Park, W. R. Herrick, pres. Park Dpt., acquired 56 acres park site (Fort Tryon Park), Washington Heights.

BIDS ASKED

Mass., Hyde Park—See "Clubs."

CONTRACTS AWARDED

N. Y., Brooklyn—Park Bd., W. R. Herrick, pres. Park Dpt., Arsenal Bldg., Central Park, New York, improving North Addition, Brooklyn Botanic Garden, to T. McMillan, 26 Court St., $23,344; sand box and shelter and 1 double masonry hand-ball court, in Dyker Beach Park, etc., to Swanson & Rutter, $5,876; sheet asphalt paving Main Rd. Eastern Parkway, to B. Turecamo Contg. Co., New Cropsey Lane, $2,530. Grand total $31,750. Noted Dec. 24.

N. Y., Long Island City—Park Bd., W. R. Herrick, pres. Park Dpt., Arsenal Bldg., Central Park, New York, steel sheet pile bulkhead, Crocheron Park, to Welsh Bros. Contg. Co., 27 Purvis St., $29,850. Noted Dec. 24.

N. Y., New York—Park Bd., W. R. Herrick, pres. Park Dpt., Arsenal Bldg., Central Park, repairing asphalt walks in Central Park, to C. D. Beckwith, Inc., Seneca Ave. and Edgewater Rd., $3,174; erecting wrought iron picket fence, Harlem River Driveway, to Tryola Iron Corp., $2,195; replacing defective fire and flush hydrants in Central Park, etc., to J. D. Nugent, 1617 73rd St., Brooklyn, $2,154; restoring main entrance 77th St. and paving service road American Museum Natural History, to A. Capasso, 4121 Gunter Ave., $4,944. Grand total $12,467. Noted Dec. 24.

HEATING AND VENTILATING

PROPOSED WORK

N. Y., New York—Sutton Studios, Inc., 233 Bway., plans by S. W. Katz, 49 West 45th St., fire tower, elevator, plumbing, new mechanical equipment, 1033 1st Ave. $40,000.

N. Y., New York—Owner, c/o C. Harlzelius, archt., 301 Madison Ave., altering heating, plumbing, electrical work in manufacturing plant, Water and Gouveneur Sts. $40,000.

CONTRACTS AWARDED

N. Y., Auburn — Commissioner Correction, State Office Bldg., Albany, heating Mess Hall, Kitchen and Bakery Building, Auburn Prison, to Barr & Creelman, 74 Exchange Pl., Rochester, $1,748; kitchen equipment, to S. Blickman, 536 Gregory Ave., Weehawken, N. J., $25,940; bakery oven, machinery, etc., to J. White Co., 494 Broome St., New York $17,450. Grand total $45,138. Noted Nov. 19.

N. Y., Brooklyn—Bd. Educ., 500 Park Ave., New York, heating P. S. 248, to Almirall Co., 53 Park Pl., New York, $58,737; plumbing, to Hygrade Plumbing Co., 324 West 25th St., New York, $20,210; electrical work, to Berkshire Electric Co., 124 Livingston St., $14,800. Grand total $93,747. Noted Dec. 24.

N. Y., Middle Village—Bd. Educ., 500 Park Ave., New York, heating P. S. 49, to E. V. McGovern, 251 East 66th St., New York, $18,400; plumbing, to D. J. Rice, 41-50 38th St., Long Island City, $49,900; electrical work, to Jandous Electric Equipment Co., 210 East 40th St., New York, $11,480. Grand total $79,780. Noted Dec. 24.

N. Y., Rosedale—Bd. Educ., 500 Park Ave., New York, heating P. S. 138, to E. V. McGovern, 251 East 66th St., New York, $4,720; plumbing, to D. Rice, 41-50 38th St., Long Island City, $14,700; electrical work, to J. Hoffman & Co., Inc., 3318 Avenue N, Brooklyn, $5,400. Grand total $24,820. Noted Dec. 3.

N. Y., West Brighton—Bd. Educ., 500 Park Ave., New York, heating P. S. 45, to D. J. Rice, 41-50 38th St., Long Island City, $27,370; plumbing, to E. V. McGovern, 251 East 66th St., New York, $10,381; electrical work, to Wimpie Electric Co., 305 East 45th St., New York, $10,390. Grand total $48,141. Noted Dec. 24.

UNCLASSIFIED

PROPOSED WORK

N. Y., New York—SUBWAY PLATFORMS—Interborough Rapid Transit Co., 165 Bway., plans lengthening local station platforms on Lexington Ave. East Side Line from uptown to City Hall, to accommodate longer trains. To exceed $1,000,000. Company delayed construction pending outcome of unification negotiations.

Canada — TELEPHONE IMPROVEMENTS — Bell Telephone Company of Canada, 1050 Beaver Hall Bldg., Montreal, plans replacements and improvements in Eastern and Western Divisions during 1932. $15,500,000.

CONTRACTS AWARDED

Mass., Feeding Hills—QUARRY PLANT—York Hill Trap Rock Co., State and Brooks St., Meriden, Conn., quarry plant, incl. equipment. Owner builds. Private plans.

Okla., Drumright—PUMPING STATION—Stanolind Pipe Line Co., Philcade Bldg., Tulsa, 1 story, basement, 66 x 78 ft. concrete, steel addition, to DeWitt & Howard, Roberts Bldg. Est. $25,000.

MATERIALS

BIDS ASKED

CEMENT—**Indiana**—Jan. 21, by State Hy. Comn., Indianapolis, 2,000,000 bbl. cement for construction during 1932. $2,200,000. J. J. Brown, dir.

BRIDGE LUMBER, CULVERT PIPE, etc. — **Davenport, Ia.**—Jan. 19, at office Auditor Scott Co., 84,000 b.f. standard bridge plank, 25,300 b.f. creosoted bridge lumber, 120 creosoted piling, 8,400 lin.ft. corrugated culvert pipe, 8,000 cu.yd. macadam or road stone, 50,000 gal. road oil.

CEMENT—**Baltimore, Md.**—Jan. 20, by Bd. Awards, furnishing, delivering cement to various departments of city. J. H. Gaston, City Hall, purch. agt.

LIQUID CHLORINE—**Little Falls, N. J.**—Jan. 19, by Passaic Valley Water Comn., 156 Ellisen St., Paterson, furnishing liquid chlorine to Little Falls Filter Plant for year 1932, $5,000; furnishing, delivering 50 to 75 tons per month of 60° sulphuric acid made from brimstone, for year of 1932, $5,000.

ASPHALTIC CEMENT—**New York, N. Y.**—Jan. 19, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., 500,000 gal. asphaltic cement; 1,200,000 gal. bituminous road surfacing material, asphalt road oil for cold application; 200,000 gal. tar for patching, hot application; 200,000 gal. tar for patching, cold application; 14,000 cu.yd. asphalt sand; 10,000 cu.yd. binder stone; 2,500 cu.yd. concrete and paving sand; 4,000 cu.yd. sand grit; 5,000 cu.yd. ¾ in. stone; 1,600 tons inorganic dust; 200 tons pitch joint filler for stone block paving; 10,000 bags portland cement; long leaf yellow pine lumber; spruce lumber, cypress, whitewood, white pine, plain sawn white oak, quarter white oak.

LUMBER—**New York, N. Y.**—Jan. 19, by J. G. W. Greeff, comr. Hospitals, Municipal Bldg., lumber.

BUILDING MATERIALS—**College Station, Tex.**—Jan. 21, by College Architect A. and M. College, masonry material, glass, glazing, roofing, sheet metal, steel sash, screens, lath, plaster work, flooring materials and labor, terrazzo work, tile work, mosaic tile, marble work, structural glass, mill work, blackboards, Venetian blinds, metal doors and trim, for college buildings. Bids later on elevator, ornamental metal work, builders hardware, vault doors, electrical material, plumbing material, heating material, ventilating and painting material. Noted Dec. 10, under "Schools."

CONTRACTS AWARDED

LUMBER, etc. — **Allison, Ia.** — Butler Co., 26,000 ft. treated Class "B," 10,000 ft. untreated Class "A" and 15,000 ft. finished Class "C" lumber, to Frudden Bridge Lumber & Supply Co., Greene, $3,209. Noted Nov. 26.

BRIDGE LUMBER, CULVERT PIPE, etc.—**Cresco, Ia.**—Howard Co., 96,000 ft. creosoted yellow pine bridge plank, 10,000 ft. creosoted yellow pine bridge caps, 3,900 ft. creosoted yellow pine piling, 120,000 ft. untreated Douglas fir bridge plank, 8,000 ft. finished Class "C" lumber, to Wheeler Lumber, Bridge & Supply Co., 606 Hubbell Bldg., Des Moines, $11,139; 5,600 ft. corrugated culvert pipe, to Iowa Culvert & Pipe Co., Mason City, $5,265. Noted Dec. 3.

LUMBER, etc.—**Indianola, Ia.**—Warren Co., 272,532 ft. untreated and 56,682 ft. treated fir lumber, 9,400 ft. treated yellow pine piling, to Wheeler Lumber, Bridge & Supply Co., 606 Hubbell Bldg., Des Moines, $17,514. Noted Dec. 10.

IRON CASTINGS—**Boston, Mass.**—Supply Dpt., P. A. Chapman, supt., 400,000 lb. castings, branches, curves, etc., to Gibby Fdry. Co., 96 Condor St., East Boston, @ $0.0345 per lb. 600,000 lb. castings, gate and hydrants, to Mechanics Iron Fdry., 38 Kemble St., Roxbury, $0.03; 350,000 lb. iron castings, two-part boxes, to Central Fdry. Co., 105 Cummings St., $0.0287.

LIME, etc.—**St. Louis, Mo.**—Bd. P. Serv., City Hall, delivering at **(a)** 34 East Grand Ave. **(b)** at Hine, to Hunkins-Willis Lime & Cement Co., 317 North 11th St., 11,000 tons lime, at $7.15 per ton, at **(a)** 10,000 tons at $7.95 per ton at **(b)**; to Amer. Steel & Wire Co., 506 Olive St., 2,200 tons more or less sulphate of iron at $12.80 at **(a)** and $13.80 at **(b)**; to General Chemical Co., Paul Brown Bldg., 2,700 tons more or less sulphate of alumina, at $17.50 at **(a)** and $17.50 per ton plus $0.07½ per cwt. freight weight at **(b)**; to Mansanto Chemical Wks., 1724 South 2nd St., 270,000 lb. more or less of liquid chlorine at $2.19 per cwt. at **(a)**; to Standard Building Materials Co., 722 Chestnut St., portland cement for year 1932, for various departments in cloth sacks in carload lots at $1.70 per bbl. f.o.b., and in paper sacks at $1.45 per bbl. f.o.b., for truck delivery at site of job $2.25 per bbl. in cloth sacks, $2 in paper sacks, and for will call basis at material company yards $2.15 bbl. in cloth sacks, $1.90 per bbl. in paper sacks. Discounts $0.10 per bbl. on carload shipments for payment within 15 days from date of invoice and on truck lots 2 per cent for payment by 15th following month. $0.10 credit per sack will be allowed from these prices for return of cloth sacks. Noted Dec. 10.

PIPE—**Kalispell, Mont.**—City, 639 tons c.i. pipe and fittings for replacing wooden pipe from pumping station to reservoir and from reservoir to Railroad St. on North Main St., to National Cast Iron Pipe Co., 603 Land Bank Bldg., Kansas City, Mo., at $49.60 per ton. Noted Nov. 26, under Waterworks.

EQUIPMENT

PROPOSED WORK

SIGNAL DEVICES—**New York, N. Y.**—Interborough Rapid Transit Co., 165 Bway., has ordered automatic signal devices on 162nd Street Extension. To exceed $100,000. Project deferred until more urgent signal projects are completed.

SIGNAL and TRAIN TRIPPING DEVICES—**New York, N. Y.**—Interborough Rapid Transit Co., 165 Bway., plans installing signal and train tripping devices on local track 2nd Ave. Elevated, Chatham Sq. to 129th St. **Maturity indefinite,** priority being accorded other work. To exceed $300,000.

BIDS ASKED

CONCRETE MIXER—**Lynn, Mass.**—W. J. O., 59 Mansfield St., in market ½ or 1 bag concrete mixer, with power hoist.

MOTORS—**Palmer, Mass.**—S. C. S. Box Co., Inc., Palmer, in market motors, 10 hp. variable speed, general electric, 500 volts, 3 phase (speed 550-1600).

TAPPING SLEEVES, etc.—**Secaucus, N. J.**—Jan. 20, by Bd. Comrs. City Hall, Jersey City, furnishing, delivering one 72 x 20 in. tapping sleeve with two 20 in. flange tapping valves and one 72 x 16 in. tapping sleeve with two 16 in. flange tapping valves and making connections under pressure with 72 in. steel water main and 72 in. riveted steel lock bar water mains, at intersection County Rd. and County Ave. $15,000. J. Henderson, City Hall, Jersey City, engr.

CONTRACTS AWARDED

SIGNAL and TRAIN TRIPPING DEVICE—**Brooklyn, N. Y.**—New York Rapid Transit Co. (B.M.T. Lines), 385 Flatbush Ave., equipping with automatic signal and train tripping device on local tracks of Fulton Street Line from Tillary St. to Atlantic Ave., to General Railway Signal Co., 230 Park Ave., New York. Est. $255,000. Contract awarded subject to approval by Transit Comn.

FOREIGN

Argentina — Provisional Government, Buenos Aires, plans 130 grain elevators, incl. seven 1,000 ton capacity, twenty-one 2,000 ton capacity, forty-two 3,000 ton capacity, thirty-six 5,000 ton capacity, twenty-one 7,000 ton capacity, and three 10,000 ton capacity, in provinces of Buenos Aires, Santa Fe and Cordoba.

Chile, Santiago — Feb. 18, by Secretary Chilean State Rys., Santiago, woodworking and carpentry shop machinery, incl. timber drying installation, machine tools for wagon repair shop, hydraulic compressor; electrically operated overhead traveling crane, capstans, transporter, motor tractor for handling coaches; machinery for blacksmith shop, spring testing machine.

Colombia, Bogota—Government, Bogota, budget for 1932 includes improving Magdelena River and river ports $597,000; public buildings $310,000; Cartagena port works, $1,000,000; new highway construction $1,620,000.

France, Paris — Municipality of Paris, approved project for supply 1,000,000 cu. meters water daily from River Loire, instead of Seine. $200,000,000.

India, Bombay—Feb. 23, by General Manager Great Indian Peninsular Railway; 13 spans each 156 ft. for Narajan and Betauc Bridges, about 2,430 tons.

Italy, Vatican City—Roman Catholic Church, Vatican City, plans theological college at Church of St. John Lateran.

New Zealand, Wellington—Feb. 9, by Dpt. P. Wks., Supplies, & Tenders, four hundred 230 volt control and power cables; 11,000 power cables.

U.S.S.R., Ashkhabad—Soviet Government, c/o Amtorg Trading Corp., 261 5th Ave., New York, plans window glass factory, 2,700,000 sq. meter window glass annually.

South Africa, Johannesburg—Metro-Goldwyn Mayer Corp., Johannsburg, soon lets contract theatre. $700,000. T. W. Lamb, 570 7th Ave., New York, archt. Demolition in progress. Noted Oct. 22.

South Africa, Johannesburg — Feb. 15, by Manager South African Railways & Harbour Comns., 1,790 tons steel, troughing, etc., for Buffalo River Bridge.

Commercial Buildings

RESIDENTIAL

BIDS ASKED

Ill., Chicago—Building Syndicate, c/o National Realty & Investment Assn., W. Wright, 33 North La Salle St., plans by Rebori & Wentworth, 221 North La Salle St., co-operative apartment, 1224 Lake Shore Dr. $3,000,000. **Maturity in June.**

Mass., Athol — Garbose Bros., Parker St., Gardner, taking bids reconstructing 4 story, basement, brick, steel hotel, plain found., Exchange and Main Sts. $150,000. W. G. Upham, 7000 Washington St., Norwood, archt.

Mass., Brighton (Sta. Boston)—See "Contracts Awarded."

CONTRACTS AWARDED

Mass., Brighton (sta. Boston) — Sheridan Realty Co., c/o S. Rottenberg, 294 Washington St., Boston, 4 story, basement, brick, steel, stone, plain found., Englewood Ave., separate contracts. $150,000.

Mass., Brighton—Chiswick Park Realty Trust, 1800 Commonwealth Ave., Brighton, 4 story, basement, brick, steel, plain found., Chiswick Rd., day labor. Est. exceeds $150,000. Private plans.

CLUBS

PROPOSED WORK

N. J., Garfield—Farnham Democratic Club, A. Macaluss, pres., 103 Farnham Ave., revised sketches by D. J. Conte, 166 Harrison Ave., 1 story, basement club house, Harrison Ave. $150,000. Noted Oct. 29.

BIDS ASKED

Mass., Hyde Park—City of Boston, Park Dpt., 33 Beacon St., Boston, bids about Jan. 25, 2 story, basement, brick golf club house and municipal golf course. $150,000. J. G. McGann, 129 Newbury St., Boston, archt. Noted Dec. 1.

N. J., Newark—J. Centanni, archt., 142 Market St., bids about Feb. 15 on revised plans 2 story, basement, 60 x 100 ft., brick, steel club house, Summer Ave. and D'Auria St., for Italian Catholic Union Holding Co., 118 87th Ave. $150,000. Noted Dec. 24.

HOSPITALS

PROPOSED WORK

N. Y., Brooklyn—Dpt. Hospitals, Municipal Bldg., New York, sketches by J. E. Kleist, 25 West 45th St., New York, 14 story, 205 x 405 ft. hospital, Hawthorne St. and East New York Ave. $3,000,000.

N. Y., New York—Dpt. Hospitals, Municipal Bldg., sketches by Landsman & Smith, 105 West 40th St., 9 story, 126 x 184 ft. children's hospital, at Metropolitan Hospital, Welfare Island. $870,000.

BIDS ASKED

N. Y., Brooklyn—Dpt. Hospitals, Municipal Bldg., New York, bids about Mar. 1, general contract 6 story, 40 x 181 ft. employees dormitory, Kings Co. Hospital, Winthrop St. and Kingston Ave. $350,000. J. E. Kleist, 25 West 45th St., New York, archt. Noted Dec. 24.

CONTRACTS AWARDED

N. Y., Rochester—Monroe Co., Court House, general contract nurses dormitory and service building, to J. B. Pike & Sons, Inc., 1 Circle St., $296,126; heating, to M. W. Utz, 1059 Main St. E, $27,269; plumbing, to F. W. Murtaugh, 16 Howell St., $65,280; fireproofing, to Wright & Alexander, $19,885; electrical work to Dwyer Electric Co., 213 Monroe Ave., $4,833. Grand total $413,393. Noted Feb. 27, 1930.

CHURCHES

PROPOSED WORK

N. J., Garfield—First Presbyterian Church, R. W. Key, pastor, 132 Palisade Ave., revised sketches by J. H. Dynes, 15 Orient Way, Rutherford, 1 story, basement, brick, steel church addition. $150,000. Noted June 11.

BIDS ASKED

Conn., Montville—Jan. 15 (extended date), by Memorial Union Baptist Parish, R. J. Bates, pastor, 1 and 2 story, 55 x 75 ft., stone church. Payne & Keefe, 231 State St., New London, archts. Noted Jan. 7.

N. J., Newark—D. J. Scrocco, archt., 60 Park Pl., bids about Jan. 22, general contract 2 story, basement, brick, steel church, rectory, Warwick and Long Sts., for St. George Greek Church, Warwick St. $150,000. F. Nagy & Associates, Bethlehem, Pa., assoc. archts. Noted Jan. 7.

Pa., Elmhurst—F. F. Durang, archt., 110 West Dudley Ave., Westfield, N. J., bids about Feb. 23, general contract 3 story, basement, brick, steel mother house, plain found., for Poor Sisters of Jesus Crucified and The Sorrowful Mother. $200,000. Noted Dec. 3.

SCHOOLS

PROPOSED WORK

Ark., Clarksville—College of the Ozarks plans chapel. To exceed $150,000.

Ill., Chicago — University of Illinois, 1849 Polk St., plans by Granger & Ballenbacher, 333 North Michigan Ave., and soon takes bids 9 story, 16 story tower, brick, limestone medical and dental college. $1,000,000. J. M. White, c/o University of Illinois, Urbana, superv. archt.

Ind., Hammond—Bd. Educ. plans by J. T. Hutton & Son, Hammond, Thomas A. Edison School, brick, Bedford stone, Madison, Jackson, Spruce and Mulberry Sts. $350,000. **Maturity early in spring.** This corrects report in Dec. 17 Daily and Dec. 24 issue.

La., New Orleans — Rathbone DeBuys, archt., Hibernia Bldg., soon lets contract 3 story, basement, 62 x 228 ft., brick, stone school, incl. cafeteria, mechanical plant, pile found., Calhoun St., for Congregation Most Holy Name of Jesus, Loyola University. $200,000. Noted Dec. 17.

La., New Orleans—Rathbone DeBuys, archt., Hibernia Bank Bldg., soon lets contract 3 story, basement, 62 x 228 ft., brick, stone school, incl. cafeteria, mechanical plant, pile found., Calhoun St., for Most Holy Name of Jesus Congregation, Loyola University. $200,000.

Neb., Omaha—J. L. Paching, c/o Holy Cross Parish, postponed taking bids until late spring 2 story, basement, 88 x 115 ft., rein.con. brick, Bedford stone, terrazzo school, incl. library, music and rest rooms, 48th and Woolworth Sts. $250,0000. Lohr & Stengel, W. W. Bldg., archts. Noted Aug. 27.

N. H., Durham—University of New Hampshire, auditorium and gymnasium buildings. $150,000 or more.

N. Y., Aurora—Wells College, college buildings. To exceed $1,000,000.

N. Y., Bayside—Bd. Educ., 500 Park Ave., New York, plans by W. C. Martin, archt., Flatbush Ave. extension and Concord St., Brooklyn, Woodrow Wilson High School. $2,000,000.

N. Y., Brooklyn—Bd. Educ., 500 Park Ave., P. S. 33, Marine Park Dist. To exceed $150,000. Site acquired.

N. Y., Hempstead — School Dist. 12, R. B. Becker, pres. School Bd., sketches by F. P. Wiedersum, 240 Rockaway Ave., Valley Stream, high school.

N. Y., Ithaca—Cornell University, additional dromitories, also library buildings. To exceed $150,000.

N. Y., New York—Bd. Educ., 500 Park Ave., sketches by W. C. Martin, Flatbush Ave. extension and Concord St., Brooklyn, pringing trades school, West 41st St. between 7th and 8th Aves. To exceed $1,000,000. **Maturity late in spring.** Noted Nov. 26.

N. Y., New York—Bd. Educ., 500 Park Ave., school, River and 164th St. To exceed $500,000.

N. Y., New York—Bd. Educ., 500 Park Ave., sketches by W. C. Martin, Flatbush Ave. extension and Concord St., Brooklyn high school, Bronx Boro. $2,000,000.

N. Y., Bellaire—Bd. Educ., 500 Park Ave., New York, plans by W. C. Martin, Flatbush Ave. extension and Concord St., Brooklyn, Andrew Jackson High School, South Bellaire. $2,000,000.

N. Y., Suffern—Bd. Educ., Washington Ave., sketches by L. C. Licht, 4 North Dean St., Englewood, Junior and Senior High School, 2 story, basement, brick, steel, rein.-con. $250,000.

N. C., Guilford—Guilford College, survey of existing buildings to formulate general building plan in commemoration of centenary. To exceed $150,000. A. Bussell, 347 Madison Ave., New York, archt.

Pa., Annville—Lebanon Valley College dining hall $50,000; gymnasium $150,000.

Que., Montreal—Les Freres de la Charite, De Montegny St. E., sketches 5 story, brick, steel, stone reform school, concrete found., Sherbrooke St. E. near Desermeaux St. $1,000,000.

BIDS ASKED

Mass., Boston—City, Dpt. School Buildings, bids about Jan. 21, Public Latin School for Boys, 3 story, basement, brick, stone, steel, plain found., Louis Pasteur Ave., City Proper. $850,000. McLaughlin & Burr, 88 Tremont St., Boston, archts. Noted Oct. 8.

Mass., Brighton (sta. Boston)—Jan. 20, by City of Boston, Dpt. School Buildings, 2 story, basement, 60 x 135 ft., brick, granite school, plain found., Bertram St., Gardner Dist. $150,000. G. N. Jacobs, 114 State St., Boston, archt. Noted Oct. 1.

Tex., Austin—Jan. 29, by Bd. Regents University of Texas, c/o J. W. Calhoun, comptroller, architecture building, on campus. Matthews & Keenan, Smith-Young Tower, San Antonio, structural engrs. R. F. Taylor, Santa Fe Bldg., Dallas, mechanical engr. H. M. Greene, La Doche & Dahl, Insurance Bldg., Dallas, archts. Noted July 2.

CONTRACTS AWARDED

Delaware—H. V. Holloway, state supt. Public Instruction, Dover, John M. Clayton School, 2 story, basement, brick, rein.-con., plain found., Old State Rd. between Dagsboro and Frankford, to Selbyville Mfg. Co., Selbyville, $163,400; plumbing, heating, ventilating, to John Borden & Bros., 637 North 19th St., Phila., Pa., $36,695; electrical work, to L. W. Gunby Co., Salisbury, $8,925. Grand total $209,020. Noted Dec. 31.

Del., Bellefonte—Delaware School Foundation, Du Pont Bldg., Wilmington, general contract 2 story, basement, 190 x 266 ft., brick, rein.-con. elementary and high school, plain found., Philadelphia Pike, to Wm. Francis Co., Du Pont Bldg., Wilmington $247,700; heating, plumbing and ventilating, to T. T. Weldin & Sons Co., 916 Orange St., Wilmington, $57,900; electrical work, to Electric Contg. Co., 111 West 8th S Wilmington, $12,034. Grand total $317,6 Noted Dec. 3.

N. J., Florian Park—Bd. Educ., R. Buck, di clk., general contract 2 story, basement, bri steel to L. Deutsch, Inc., 879 Bergen St., Ne ark, $112,000; plumbing, to G. H. Van Vari Inc., 28 Hillman St., Clifton, $7,389; heatin to G. J. Tobin, 187 North Ave., Plainfiel $27,137; electrical work, to G. G. Williams, 1 Franklin Terrace, Irvington, $5,444; steel a iron, to Standard Iron Wks., 114 Badger Av Newark, $6,081. Grand total $158,051. Not Nov. 26.

N. Y., Brooklyn—Roman Catholic Dioceses Brooklyn, Bishop Loughlin Memorial Hi School, 4 story, 200 x 220 ft., brick, steel, James King & Son, 1457 Bway., New Yor Noted Dec. 10.

N. Y., Corona—Bd. Educ., 500 Park Av New York, general contract addition to P. 16, to Shaw Constr. Co., 57-16 Woodside Av Woodside, $202,885; plumbing, to J. A. Gra 111 Putnam Ave., Brooklyn, $1,043. Not Dec. 10.

N. Y., New York—Bd. Educ., 500 Park Av New York, P. S. 95, to Pstay & Fuhrman, 36 Lexington Ave., $539,000. Noted Nov. 12.

THEATRES

CONTRACTS AWARDED

N. J., Newark—F. Grad, archt., 1023 Broa St., general contract altering and constructin 4 story, basement, brick, steel theatre addition to Pellecchia Constr. Co., 50 Branford Pl., fo Fleissner Realty Co., C. Fleissner, pres., 129 Pulaski St. Est. $150,000. Noted Dec. 10.

N. Y., New York—Metropolitan Square Corp and Todd, Robertson & Todd Eng. Co., 347 Madison Ave., 1,600 to 3,200 carloads limestone for Radio City, to Indiana Limestone Co., Bedford, Ind. Noted Mar. 19.

BANKS

CONTRACTS AWARDED

R. I., Providence—High Street Bank, 846 Westminster St., reconstructing 1 story, basement, concrete, steel bank, concrete found., to Central Eng. & Constr. Co., 210 Main St., Pawtucket. $150,000. Noted Dec. 17.

OFFICES

PROPOSED WORK

N. J., Jersey City—Journal Square Medical Building, Inc., W. J. Quinn, pres., c/o Dpt. Revenue & Finance, City Hall, sketches by N. Harris, 17 Mechanic St., Newark, 10 story, basement, brick, steel medical building, Tonnele and Sip Aves. $1,000,000. Noted July 16.

BIDS ASKED

N. J., Union City — W. P. Keane, 317 Monastery Pl., bids about Feb. 23, 2 story, basement, 75 x 100 ft., brick, steel office, store, Bergenline Ave. and 36th St. $150,000. P. A. Vivarttas, 110 48th St., archt. Noted Oct. 22.

CONTRACTS AWARDED

Calif., Santa Ana—Santa Ana Business Property Syndicate, 3 story, basement, Class A rein.-con. office, store, 4th and Main Sts., to Meyer & Holler, 315 Wright and Callender Bldg., Los Angeles. Est. $175,000.

Ont., Toronto—North American Life Assurance Co., 199 Bay St., general contract 7 story (ultimately 15 story), basement, 122 x 200 ft. concrete, brick, steel, stone to Geo. A. Fuller Co. of Canada, 210 Dundas St. W. Est. $1,500,000. Noted Dec. 3.

STORES

PROPOSED WORK

N. J., East Orange—S. H. Kress & Co., 144 5th Ave., New York, plans by E. F. Sibbert, 114 5th Ave., New York, 3 story, basement, 70 x 135 ft., brick, steel department store, Central Ave. $150,000. Baldwin Constr. Co., 614 Central Ave., former owner.

N. J., Newark—Owner, c/o Harris & Sohn, archts., 17 Mechanic St., rejected bids 2 story, basement, brick, steel store, apartment. $150,000. Noted Nov. 12.

N. J., Westfield—S. Nathan, c/o F. P. Friedman, archt., 9 Clinton St., Newark, 2 story, basement, brick, steel store, loft, apartment and garage, 135-39 East Broad St. $150,000.

N. J., Westfield—Owner, c/o H. V. Trevenen, archt., 116 Elm St., rejected bids 2 story, basement, brick, steel store, office, East Broad St. $150,000. Noted Nov. 12.

N. Y., New York—Metropolitan Square Corp. and Todd, Robertson & Todd Eng. Co., 347 Madison Ave., bids in March British Empire Building, 6 story stores and office, 5th Ave. and 50th St. To exceed $1,000,000. Corporation, c/o F. J. S. Hopwood, Underground Electric Rys. Co. of London Ltd., London, England, lessee. Noted Mar. 19.

N. Y., Tompkinsville—Bulider, c/o Clark, Reilly & Co., 222 Bway., St. George, store, apartment, Castleton and Woodstock Sts.

BIDS ASKED

N. J., Cranford—See "Contracts Awarded."

N. J., Elizabeth—M. Bloom, c/o S. Cohen, archt., 130 Brandford Pl., Newark, bids about Feb. 1, general contract 2 story, basement, brick, steel store, apartment, Magee Ave. $150,000. Noted Dec. 3.

Stores (Continued)

CONTRACTS AWARDED

Calif., Santa Ana—See "Offices."

N. J., Cranford—J. Eastmond, East North Ave., 2 story, basement, brick, steel store, office, East North Ave., separate contracts. $150,000. Private plans.

PUBLIC

PROPOSED WORK

Ont., Windsor—FEDERAL—Dominion Govt., Dpt. P. Wks., Toronto, plans by H. P. Sheppard, 24 West Chatham St., 6 story, basement, 75 x 201 ft., rein.-con., brick, steel, stone federal building and post office, plain found., Ouellette Ave. $1,000,000.

BIDS ASKED

N. J., Newark—POLICE STATION—Bd. City Comrs., City Hall, bids about Mar. 1, general contract altering 2 story, basement, brick, steel fire house into police sttaion, Sanford Ave. and Palm St. $150,000. F. Grad, 1023 Broad St., archt.

CONTRACTS AWARDED

D. C., Wash.—ENGINE HOUSE, etc.—District Comrs., District Bldg., fire engine house and fire police clinic, to W. P. Rose Co., Greensboro, N. C., $152,800. Noted Dec. 4 Daily.

N. Y., Mount Kisco—FIRE HOUSE, etc.—Village, fire house and municipal building, to O'Brien & Kinkel, 55 Maple Ave., $100,350. Noted Dec. 10.

N. Y., West Haverstraw—HOME—Comissioner Dpt. Health, State Office Bldg., Albany, general contract dining room, kitchen building, laundry, storehouse, school house, treatment building, connecting corridors for New York State Reconstruction Home, to Agostini Bros., 205 East 42nd St., New York, $444,758; heating, to R. H. Baker Co., 405 Lexington Ave., New York, $134,800; sanitary work, to J. T. Evans, Market St., Wilkes-Barre, Pa., $30,700; electrical work, to Engert-Hellman, Grand Central Terminal, New York, $34,250. Grand total $644,508. Noted Oct. 22.

R. I., Providence — LIBRARY — Providence Pub. Library Assn., c/o A. Harkness, archt., Industrial Trust Bldg., 1 and 2 story, basement, brick, plain found., to C. K. Rathbone, Hospital Trust Bldg. Est. $150,000. Noted Dec. 17.

UNCLASSIFIED

PROPOSED WORK

Ill., Winnetka — EXCHANGE — Holabird & Root, archts., 333 North Michigan Ave., Chicago, soon lets contract, 2 story, rein.-con., face brick, limestone, Oak St., for Illinois Bell Telephone Co., 212 West Washington St., Chicago. $580,000.

Mass., Boston—LEGION—M. J. Perkins Post American Legion, E. C. Carroll, comdr., 234 L St., South Boston, sketches by G. N. Jacobs Associates, Inc., State St., legion building, Broadway. $150,000.

N. Y., Brooklyn—COMMUNITY—J. Shields, 307 Atlantic Ave., bids about Feb. 7, revised plans 3 story, 60 x 110 ft. community building, Atlantic Ave. and Hoyt St. $150,000. J. P. Boyland, 305 East Kingsbridge Rd., New York, archt. Noted Dec. 17.

BIDS ASKED

Ind., Knightown—HOME—Soldiers & Sailors Childrens Orphan Home bids about Feb. 15, 2 story boy's dormitory, rein.-con., brick, at Children's Home. $150,000. McGuire & Shook, 1401 Fletcher Trust Bldg., Indianapolis, archts.

CONTRACTS AWARDED

Ill., Hinsdale—HOME—Owner, c/o Anderson & Ticknor, Inc., archts., Lake Forest, general contract King-Brumaert Home, incl. main building service and gardeners cottage, to Ouilmette Constr. Co., Wilmette. Est. $600,000. Contractor now letting sub-contracts.

Mich., Detroit—CITADEL—Salvation Army, 564 Michigan Ave., 3 story, concrete, brick, steel, plain found., Burgess Ave., to Corrick Bros., 507 Owen Bldg. Est. $150,000.

Industrial Buildings

FACTORIES AND MILLS

PROPOSED WORK

Calif., Los Angeles—ASSEMBLING PLANT—Chrysler Corp., W. P. Chrysler, pres., 341 Massachusetts St., Detroit, Mich., assembling plant on 30 acre site. $2,000,000.

N. J., Englewood—CLOTHING FACTORY—Owner, c/o C. G. Mettburg, archt., 16 Depot Sq., sketches 2 story, basement, 250 x 400 ft., brick, steel, South Van Brunt St. $150,000. M. Udell & Sons, Inc., 46 West 23rd St., New York, lessee.

N. J., New Brunswick — BOX FACTORY — Empire Box Corp., Codwise Ave., 2 story, basement, brick, steel addition. $40,000. **Maturity soon.** Architect not appointed.

N. Y., Brooklyn—LAUNDRY—Dpt. Hospitals, Municipal Bldg., sketches by LeRoy P. Ward, 205 East 42nd St., New York, altering and constructing 2 story laundry addition, at Kings Co. Hospital, Clarkson Ave. east of New York Ave. $100,000.

R. I., Greenville — PRINTING PLANT — Greenville Finishing Co., sketches by C. R. Makepeace & Co., Grosvenor Bldg., Providence, altering and constructing 2 story, brick addition. $40,000. **Maturity in spring.**

Wash., Tacoma—BREWING PLANT—Northwest Brewing Co., 6 story, 34 x 130 ft., rein.-con., steel, 107 East 26th St. $65,000. R. C. Stockton, Perkins Bldg., engr.

BIDS ASKED

Mass., Willimansett—PLANT—See "Contracts Awarded."

N. J., Newark—RUBBER FACTORY—Epple & Kahrs, archts., 17 Washington St., taking bids general contract altering and constructing 2 story, basement, brick, steel, Oliver St., for Owner, c/o architect. $40,000.

Pa., Emsworth—DISTRIBUTING PLANT—Haller Baking Co., 204 Dennison Ave., Pittsburgh, F. C. Haller, pres., taking bids 2 and 3 story, 76 x 94 ft., brick, steel. $60,000. P. R. Scheuneman, Magee Bldg., Pittsburgh, archt.

CONTRACTS AWARDED

Ark., Brinkley — SAW MILL — St. Louis Cooperage Co., C. F. Meyer, pres. and treas., Main and Arsenal Sts., St. Louis, Mo., 50 x 130 ft. frame saw mill, 1 story, 60 x 70 ft. brick, frame boiler house, 43 x 120 ft. brick duplex dry kiln, to Clymonts & Heinecke, 731 Wainwright Bldg., St. Louis, Mo.

Conn., South Manchester — ICE PLANT — L. T. Wood, 51 Bissell St., 1 story, 65 x 125 ft., brick, steel, Bissell St. and Johnson Terrace, to Gustave Schrieber & Son, Inc., 285 West Center St. Est. $75,000.

Ia., Cedar Rapids—PLANT—Penick & Ford Ltd., Inc., W. H. Lendus, pres. and genl. mgr., plant addition, to Lightner Bros., Cedar Rapids. $115,000.

Mass., Willimansett—PLANT—Palmer Steel Co., Inc., 1694 Main St., Springfield, W. Palmer, in charge, 2 additional buildings at plant, separate contracts. Noted Aug. 6.

N. J., Newark — CHEMICAL FACTORY — Dooner & Smith Chemical Co., 374 Mulberry St., general contract altering and constructing 2 story, basement, brick, steel, 264 New Jersey R.R. Ave., to F. J. Berger, 230 Belmont Ave. Est. $40,000.

N. J., Newark—REFINERY PLANT—C. Jeffreys, 38 Liberty St., general contract 2 story, basement, brick, steel, Liberty St. to Levine Bros. 519 South 14th St. Est. $40,000.

GARAGES

PROPOSED WORK

Mass., Fall River—B. M. C. Durfee Trust Co., H. R. Betagh, 1 story, brick master service station, Bedford and Rock Sts. $50,000. Architect not appointed.

N. Y., Brooklyn—Dpt. Hospitals, Municipal Bldg., New York, plans by C. B. Meyers, 31 Union Sq. W., New York, altering 2 story garage, service building and help quarters, at Cumberland Hospital, Cumberland St. and Myrtle Ave. $50,000.

N. Y., Jamaica—J. A. C. Realty Corp., 16 Court St., Brooklyn, 53 x 100 ft. service garage, Metropolitan Ave. and 126th St., separate contracts, bids in July or later. $40,000. C. Goodman, 375 Fulton St., Brooklyn, archt. Project delayed pending building permit. Noted Dec. 24.

N. Y., New York—Boyerton Burial Casket Co., 43 West 60th St., soon lets contract garage, funeral chapel, Webster Ave. and 188th St. $85,000. Pruitt & Brown, 342 Madison Ave., archt. Noted Dec. 17.

N. Y., Winfield—V. Scuderi, 4009 82nd St., Jackson Heights, sketches by C. Stedolph, Elmhurst, 1 story, 79 x 99 ft. service garage and shop, 48th Ave. and West 70th St.

BIDS ASKED

Mass., Springfield—Goodyear Tire & Rubber Co., 1144 East Market St., Akron, O., bids about Feb. 1, 1 story, steel, concrete auto service station, Main and Gardner Sts. $40,000 or more. Private plans. Noted Jan. 7.

N. J., Hillside—P. H. Bornstein & Son, 1524 Maple Ave., taking bids general contract 1 and 2 story, basement, brick, steel garage, storage building, Maple Ave. $150,000. J. Centanni, 142 Market St., Newark, archt.

N. J., Little Falls—F. W. Wentworth, archt., 140 Market St., Newark, bids about Jan. 22, general contract 2 story, basement, brick, steel garage, Main St., for Little Falls Laundry Co., Main St. $200,000. Noted Dec. 31.

CONTRACTS AWARDED

Mass., Boston—H. Jenkins Transportation Co., 30 Regis Rd., altering and constructing 1 story, rein.-con., brick, concrete garage addition, to Clark & Smith, Inc., 1372 Hancock St. Est. $40,000.

SHOPS AND FOUNDRIES

PROPOSED WORK

N. Y., Middletown—SHOP—New York, Ontario & Western Ry., W. C. Heidenthal, ch. engr., Middletown, rebuilding carpenter shop, car repair shop and part machine shop to replace fire loss.

Pa., Altoona—SHOPS—Pennsylvania R.R. Co., Broad St. Sta., Phila., T. J. Skillman, ch. engr., rebuilding 3 and 5 story, brick, steel, concrete buildings, incl. Shop 2, tank shop, machine shop, bolt shop, etc., opposite passenger station. $1,500,000.

BIDS ASKED

N. J., Trenton—SHOP—Jan. 21, by State Bd. Educ., State House, general contract 2 story, basement, brick, steel New Jersey School for Deaf. $75,000.

CONTRACTS AWARDED

Minn., Minneapolis — WATER METER REPAIR SHOP—F. S. Gram, city purch. agt., general contract 2 story, basement, rein.-con., brick, to C. H. Peterson & Co., 1036 Builders Exch., $42,750. Noted Dec. 10.

POWER PLANTS

PROPOSED WORK

Mass., Holyoke—Holyoke Water Power Co., 1 Canal St., extending dam, constructing power house and river wall, incl. excavation, fill solid in Connecticut River as addition to power plant. To exceed $40,000. Noted Apr. 9.

Mich., Detroit—Detroit Edison Co., 2000 2nd Blvd., Detroit, Mich., and 60 Bway, New York, sketches complete construction brick, steel, rein.-con. switch house for Connors Creek power plant, Lycaste Ave., part of 1932 expansion program. $200,000. Private plans. Noted Jan. 7.

Mich, River Rouge—Ford Motor Co., Dearborn, two 1 story, brick, steel, rein.-con. electric sub-stations, one for steel plant, other for glass plant. $75,000. Giffels & Vallet, 604 Marquette Bldg., Detroit, engrs.

Pennsylvania and New Jersey—United Gas & Impvt. Co., 1401 Arch St., Phila., Pa., J. E. Zimmermann, pres., and subsidiaries, plan expending $28,000,000 during 1932, additions and plant equipment improvements in various locations in Pennsylvania and New Jersey. United Engineers & Constructors, Inc., 112 North Broad St., Phila., Pa., subsidiary construction company.

Va., Lexington—Washington and Lee University power plant removal to new site and reconstruction. To exceed $40,000. **Maturity indefinite.**

Wis., Kewaunee—City, c/o J. W. Cain, clk., power plant and equipment. $40,000. City Council authorized bond issue for same. Architect not appointed.

BIDS ASKED

Del., Wilmington—Delaware Electric Power Co., 834 Market St., subsidiary of United Gas Improvement Corp., bids about Feb. 1, electric substation improvements, $70,000; electric distribution line extensions, $215,000; electric transmission line extensions, $130,000; gas main extensions, $200,000. Private plans.

N. Y., Astoria—See "Contracts Awarded."

CONTRACTS AWARDED

Ia., Iowa Falls—Central Electric Co., Dows Bldg., Cedar Rapids, power plant addition, incl. 7,500 kw. steam turbine and auxiliary equipment, to Welden Constr. Co., Iowa Falls.

Mass., Cambridge—Boston Electric Ry. Co., Park Square Bldg., Boston, 1 story, concrete, brick, steel emergency station, plain found., Bennett St., to Vappi & Ferguson Co., Inc., 240 Sidney St. Est. $40,000.

N. Y., Astoria—Astoria Light, Heat & Power Co., J. S. Hunter, in charge, 4 Irving Pl., New York, altering generator house, Winthrop Ave. and Hallet St., day labor and separate contracts. To exceed $40,000.

WAREHOUSES

PROPOSED WORK

Mo., St. Louis—Owner, c/o T. H. Cobbs, 506 Olive St., group warehouses, Market St. from Grand Blvd. to Prospect St. Negotiations underway with city, for vacating certain streets and alleys to permit site assembly.

N. J., Newark—Wilkinson Gaddis & Co., M. Hartman, genl. mgr., 95 Parkhurst St., revised sketches by Epple & Kahrs, 15 Washington St., 5 story, basement, brick, rein.-con. warehouse, office. $300,000. Noted Oct. 1.

N. J., Port Newark—Sears, Roebuck & Co., H. L. Harris, c/o Home Constr. Div., Arthington and South Homan Sts., Chicago, Ill., plans storage, terminal and plant additions, at Port Newark branch. To exceed $1,000,000. **Maturity indefinite.**

N. Y., Brooklyn—Bureau Pub. Buildings and Offices, Brooklyn Boro, sketches by J. M. Coleman, 341 Madison Ave., New York, 1 story, 60 x 100 ft. metal storage and service building, Hamilton Ave. and South 14th St.

BIDS ASKED

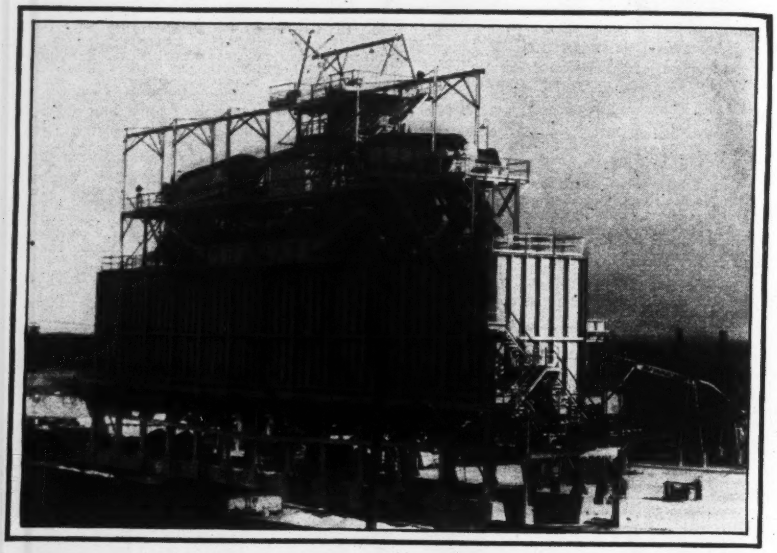
Mass., Somerville—Jan. 14, by First National Stores, Inc., 5 Middlesex Ave., 1 story, 50 x 300 ft. and 220 ft. food warehouse, salvage building, loading platform, meat platform, brick, rein.-con., Mystic Ave. $150,000. Monks & Johnson, 99 Chauncy St., Boston, archts.

CONTRACTS AWARDED

N. Y., New York—Romick Realty Co., J. L. Weil, pres., 507 West 125th St., storage and manufacturing plant, to Poudis Constr. Corp., 70 West 40th St. Est. $40,000. Noted Dec. 24.

See proposal advertising on page 50

General view of Curtis & Hill Sand & Gravel Co's plant . . . one of the largest and most modern in the United States.



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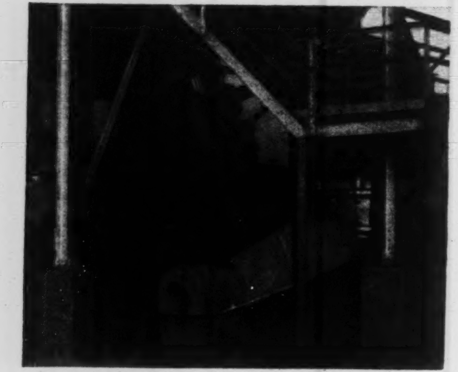
in DESIGN . . EQUIPMENT . . PERFORMANCE

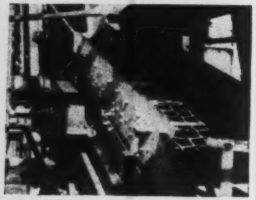


Telsmith No. 13-B Coarse Crusher handles plus 3" rock from scalper screens; the two Telsmith No. 36 Cone Crushers crush scalper rejects over 1½" and the oversize from washing screens

THE CURTIS & HILL SAND & GRAVEL CO. of Philadelphia wanted a complete new plant at their pit near Morrisville, Pa., a district where competition is rife. No novice, but a keen, experienced gravel-man . . . Mr. Curtis was most exacting as to plant design and equipment. Telsmith . . . from blue prints to bin gates . . . was his final decision. The result: an all-steel plant, every unit of machinery under push-button control, flood light equipped for 24-hour day operation, 500 tons per hour sand-gravel capacity.

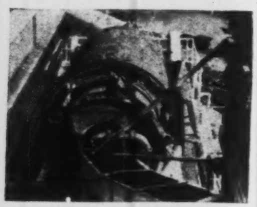
One-half the plant lies in Pennsylvania, the other in New Jersey . . . and plant may be run either half or full capacity, making material to specifications of either or both states. A dredge delivers material to top of the scalping unit where a steel hopper splits the flow into two parts. From this point, the plant has duplicate units throughout, with exception of the coarse crusher and its elevator, as follows:

Two 4 x 10 Telsmith Double Deck (scalping) vibrators; No. 13-B Telsmith Coarse Crusher with No. 6 Telsmith Belt Elevator; two No. 36 Telsmith Cone Crushers; two Digging Elevators, 94 ft. 8¼ in. long with 30 in. x 16 in. x 18 in. buckets; two 72 in. x 25 ft. Telsmith-Hercules Washing Screens; four 60 in. x 32 ft. Telsmith Sand Drags; Telsmith Bin Gates; Telsmith-Stearns Roller Bearing Stock Piling Conveyor.



Telsmith Scalping Vibrators—top decks pass minus 3"; bottom decks pass 1½"

Telsmith engineers properly coordinated and balanced every piece of machinery . . . the plant runs so smoothly that only a small operating force is required. Efficiency . . . with economy! That's *Telsmith Balanced Service*. Write for descriptive bulletin G2.



Telsmith Washing Screens separate sand, scrub and size gravel into 3 sizes

SMITH ENGINEERING WORKS
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147 West 42nd St. New York City	716 Builders Bldg. Chicago, Ill.	Harrison Bldg. Philadelphia, Pa

TELSMITH

G-16

CONSTRUCTION NEWS

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WATERWORKS

PROPOSED WORK

Colo., Pueblo—Trustees Pueblo Waterworks, c/o Del P. Porter, supt., 319 West 4th St., extensive replacement mains during 1932. $50,000-$100,000.

Conn., New London—City, laying water supply main from Ocean and Glenwood Aves., to Goshen on site proposed State Sanatorium. $15,000. W. A. MacKenzie, City Hall, engr.

Ia., Marengo—See "Contracts Awarded."

Kan., Emporia—City Council, waterworks improvements. Burns & McDonnell Eng. Co., 406 Interstate Bldg., Kansas City, Mo., consult. engrs.

Mich., Kalamazoo—City Council, bids latter part of month 7 m.g. rein.-con. reservoir. $210,000. Burns & McDonnell Eng. Co., 406 Interstate Bldg., Kansas City, Mo., consult. engrs. Noted Dec. 24.

Wash., Burlington — City Council bids in February enlarging waterworks, incl. new reservoir, water pumped from wells. $40,000. C. Callahan, city engr.

Wash., Seattle — Water Dist. 34 (group of county residents), A. A. Walski, R.F.D. 1, Renton, chn., rejected bids Dec. 11, waterworks, incl. well, settling tank, pump house, 40,000 gal. tank on 60 ft. tower, complete distribution system with valves, fittings, motor and centrifugal booster pump and motor. $30,000. Project will probably be revived when bond market improves. Parker & Hill, Smith Tower, engrs.

Ont., Galt — City waterworks extensions, incl. 6 in. and larger c.i. mains, also hydrants, valves, services. $50,000. C. Cuthier, City Hall, engr.

Ont., Kincardine—Town constructing intake, incl. two 12 in. pipes about 1 mi. long, also chlorine apparatus addition. $25,000 up. H. J. Cameron, Kincardine, supt.

BIDS ASKED

Calif., Los Angeles—Feb. 8, by Bd. Supervs. Los Angeles County Flood Control Dist., M. B. Beatty, clk., 202 Bway.. Revised San Gabriel Flood Control Dam 2, rockfill type, incl. 437,000 cu.yd. excav., 1,200,000 yd. fill, about 9 mi. up west branch above abandoned forks site. $3,000,000. E. C. Eaton, 202 North Bway., engr. Noted Nov. 19.

Calif., Signal Hill—Jan. 25, by City Council. 12,271 lin.ft. 18 in. and 17,572 ft. 20 in. c.i. (Class 100), concrete pipe, centrifugally spun, steel pipe, or 7-gage, 3/16 in. thickness on alternate proposals as follows: (A) installed complete, lump sum or average price per ft. (B) price for pipe delivered trench side (C) price for installing only. To exceed $25,000. W. V. Compson, City Hall, water supt. Noted Dec. 31.

La., Morgan City — Swanson-McGraw, Inc., consult. engrs., Balter Bldg., New Orleans, bids about Feb. 15, waterworks and electric power plant improvements, incl. construction 12,000 gal. oil storage tank, power and water plant, electrical transmission system, laying watermains, furnishing, installing two 1,000 g.p.m. underwriter motor driven pumps, two 350 g.p.m. domestic service motor driven pumps, one 1,000 g.p.m. low head motor driven pump, one 3,000 g.p.m. low head motor driven pump, 5,700 ft. 10 in. c.i. pipe, valves, hydrants, furnishing 400 kw. oil engine generating units complete with accessories, switchboard, for City. Noted Sept. 4 under "Waterworks," and Oct. 1 under "Power Plants."

Mich., Lansing—City Council taking bids furnishing 3 electric motor driven centrifugal pumps, 900, 1,200 and 1,300 g.p.m. capacities. $20,00. C. S. Packa, City Hall, engr.

Missouri—See "Contracts Awarded."

N. Y., Long Island City—Jan. 26, by J. J. Dietz, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Doncaster Pl., 15th Dr., Grand Central Parkway, Deerfield Rd., Woodhaven and Springfield Blvds., Thebes, 50th and Brookhaven Aves., 67th, 150th, 195th, Beach 25th, Beach 28th, Beach 29th and Beach 30th Sts., Queens Boro.

Alta., Calgary—Feb. 12, by City, for Glenmore Pump and Screen House Equipment, Contr. 8, incl. furnishing, delivering, installing centrifugal pumps with hydraulic turbines, motors, and electrical equipment; Contr. 9, furnishing, delivering, installing stop gates, bar screens, butterfly valves and accessories; Contr. 10, furnishing, delivering traveling screens; Contr. 11, furnishing, delivering sluice gates and gate valves. $1,000,000. Gore, Nasmith & Storrie, 1130 Bay St., Toronto, Ont., engrs. Noted Jan. 7.

CONTRACTS AWARDED

Ia., Marengo—City Council will install 11 blocks c.i. mains, day labor. $14,00. G. Lindsay, city clk. Materials previously purchased.

Missouri—St. Louis County Water Co., W. H. Henby, pres., 6600 Delmar Blvd., University City, increasing capacity 7 m.g. reservoir to 12 m.g. by increasing depth at Olive St. Rd. and Link Rd., University City; erecting 1,100,000 gal. standpipe at Normandy; 1 m.g. standpipe, at Afton, work on reservoir and founds. for standpipe towers to be done by company forces - furnishing, installing steel stand-towers, to Chicago Bridge & Iron Wks., 37 West Van Buren St., Chicago, Ill. Est. $260,000. Soon lets contract 2,000-3,000 tons 6- to 12-in. c.i. mains, also later may be in market 3,000-7,000 tons 16 in. and larger sized c.i. mains for 1932 construction program, installation by company forces.

Neb., Lincoln—City Council, 186 x 186 ft. rein.-con. reservoir, 13 ft. deep, 3 m.g. capacity, 42 x 77 ft. brick, stone pump house, five 1 story, 12 x 12 ft. brick, concrete well houses, also grading near Ashland, Neb., to A. A. Dobson, 824 1st Nat. Bank Bldg., $66,990. Est. $80,000.

N. J., Jersey City—Bd. City Comrs., City Hall, c.i. water pipe, special and standard castings, to Warren Fdry. & Pipe Co., 11 Bway., New York, $20,194; iron body bronze mounted double hub valves, to A. P. Smith Mfg. Co., 545 North Arlington Ave., East Orange, $4,527 est. $5,000.

N. J., Jersey City—Bd. City Comrs., City Hall, earth and core borings at Split Rock Pond Reservoir, to Sprague & Henwood, 10 East 40th St., New York. Est. $15,000. Noted Dec. 31.

N. J., South Orange—Bd. Village Trustees, Village Hall, general contract water pumping station, water pumping equipment, control apparatus at southwesterly and Crest Dr., general contract to F. La Ferrara, 308 Rhode Island Ave., East Orange; equipment, to Turbine Equipment Co., 30 Church St., New York. Est. $15,000. Noted Dec. 10 Daily.

N. C., Valdese—City, water and street improvements, to Boyd & Goforth, Inc., Charlotte, $155,000. Noted Sept. 10.

Wis., Milwaukee—Dpt. P. Wks., 60 m.g. geared turbine driven centrifugal pump in Riverside Pumping Station, to Allis-Chalmers Co., West Allis, $64,840. Noted Dec. 16, Daily.

Ont., Sombra—Village, waterworks c.i. pipe, to National Iron Corp., foot of Cherry St., Toronto, and to Page Hersey Tubes Ltd., 100 Church St., Toronto; valves, to Empire Brass Mfg. Co., 110 Adelaide St. W., Toronto; laying, to W. Anderson Sombra. Est. $15,000. Noted Nov. 26.

SEWERS

PROPOSED WORK

Calif., Los Angeles—Bd. P. Wks., City Hall rejected bids Nov. 18, Wilmington Intercepting Sewer, Sects. 1 and 2; North Outfall Sewer, Sect. 34-C and and D. J. J. Jessup, City Hall, engr. Noted Oct. 15.

Conn., Greenwich—Town soon lets contract, 2 sludge beds at Great Island Disposal Works. S. E. Minor & Co., Inc., Room 31, Smith Bldg., engrs.

Conn., Mystic — State Water Comn., State House, Hartford, bids in spring sewage disposal plant at Mystic Oral School. $60,000. W. Copeland, engr. Water Comn., State House, Hartford, Payne & Keefe, 231 State St., New London, archts. Noted Aug. 6.

Conn., Stonington—Mystic Oral School for Deaf, W. J. Tucker, supt., sewage disposal plant. $50,000. J. F. Lynch, 578 Campbell Ave., West Haven, engr.

Ill., Belleville—Sanitary sewerage system in southeastern section. $20,000-$25,000. T. W. Taylor, City Hall, engr.

Mich., Ann Harbor — City plans rein.-con. sewage disposal plant. $100,000. G. H. Sandenburg, City Hall, engr.

N. J., Essex Fells—Bd. Boro Council, Boro Hall, preliminary plans municipal sewage disposal system. $25,000 or more. C. Vanderville, boro engr. Noted Nov. 26.

N. D., Enderlin—City Council soon takes bids sanitary sewerage system and disposal plant. $25,000. Burns & McDonnell Eng. Co., 400 Interstate Bldg., Kansas City, Mo., engrs.

Tex., Dallas—City, c/o E. Goforth, secy., plans and surveys sanitary sewer in area lying south of Cedar Creek to Morrell St. and between Gaston Rd. and Fleming Ave. O. H. Koch, dir. P. Wks.

Tex., Port Arthur—Preliminary surveys, estimates, etc., complete lateral sewerage system, preparatory to calling bond election. $500,000. J. B. Converse, Port Arthur, engr.

Wash., Bellingham—Property Holders Eureka Dist. petitioned for new sanitary sewerage system. $60,000. J. C. Hillis, city engr.

Wash., Yakima—City Council installing 24 in. c.i. trunk line sewer leading to city from Naches Heights storage reservoir to replace 18 in. line. $80,000. N. A. Gilman, water supt.

Wis., La Crosse—City Council, sewage disposal plant. J. F. Hura, City Hall, engr.

Ont., Burlington—Town rein.-con. addition to sewage disposal plant, also storm sewers in Pearl and Princess Sts. $25,000 or more. G. H. Power, Oakville, engr.

Ont., Galt—City Council, rein.-con. sewage disposal plant. $100,000. C. Cuthier, City Hall, engr.

Some of the Week's Large Projects

For further details turn to appropriate sections in this issue

Location	*Project*	*Cost*	*Status*
Waterworks			
Los Angeles	Dam	$3,000,000	Bids asked
Calgary (Alberta)	Filtration plant	1,000,000	Bids asked
Unclassified			
Hartford (Conn.)	Memorial	1,500,000	Proposed
Federal Government			
Davenport (Iowa)	Dam, etc	3,321,973	Contract
St. Louis	Post office annex	2,500,000	Proposed
Stapleton (N. Y.)	Marine hospital	2,500,000	Proposed
Factories and Mills			
Odessa (Tex.)	Potash refining plant	2,000,000	Proposed
Buildings			
St. Louis	Hospital group	2,000,000	Proposed
Toronto (Ont.)	Office foundation, total est	1,000,000	Contract
St. Louis	Auditorium	3,700,000	Proposed
Windsor (Ont.)	Post office	1,000,000	Proposed
Chicago	High school	3,000,000	Proposed
Boston	High school	1,200,000	Proposed
Garden City (N. Y.)	College	1,000,000	Proposed
Cleveland	University	4,000,000	Proposed

See proposal advertising on page 58

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Generally speaking, most Water Mains are buried beneath the Earth's surface, to be forgotten,—they are, to a large extent, laid for permanency. Not only must the pipe itself be dependable and long lived,—but the joints also must be tight, flexible, and long lived,—else leaky joints are apt to cause the great expense of digging up well-paved streets, beautiful parks and estates, etc.

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Sewers (Continued)

Ont., Kitchener—City Council 9 in. and up vitr. tile storm and sanitary sewers in Glasgow St., Rusholme Rd., Claremont and Avondale Aves., $30,000 up. S. Shupe, City Hall, engr.

Ont., Hamilton—Vitr. tile sewers in East 8th St. $8,432, East 9th St. $8,384, Queensdale Ave. $14,552. Work will probably be done by day labor. W. L. McFaul, City Hall, engr.

Ont., Peterborough—City, 9, 12 and 24 in. tile and 42 in. concrete trunk sewers in Ashburnham-Lock-Lansdowne St. sect. $40,000. Work will probably be done by day labor. R. H. Parsons, Municipal Offices, engr.

Ont., Toronto—City Council soon takes bids extension to North Toronto Sewage Disposal Plant, rein.-con., activated sludge type. $250,000-$500,000. R. C. Harris, City Hall, engr. H. P. Eddy of Metcalf & Eddy, Eddy, Statler Bldg., Boston, Mass., and Gore, Nasmith & Storrie, 1130 Bay St., consult. engrs. Noted Feb. 19.

BIDS ASKED

Md., Baltimore — Jan. 27, by Bd. Awards, Sanitary sewers in Sewer Dists. 49 and H-4, incl. 240 lin.ft. 16 and 18 in. c.i. pipe; 3,070 lin.ft. 15 and 18 in. vitr. pipe; 1,407 lin.ft. 8, 10 and 12 in. vitr. pipe; 684 lin.ft. 6 in. house connections; 1,400 lin.ft. 4 and 6 in. underdrains. G. E. Finck, Municipal Bldg., sewerage engr.

N. Y., Camillus—Village Bd. bids about Jan. 23, sanitary sewerage system, incl. sewers, Imhoff tank. $54,000. H. C. Allen & R. Holmes, S. A. & K. Bldg., Syracuse, engrs.

N. Y., Long Island City—Jan. 25, by G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., sewers in 63rd Dr., 109th Rd., 23rd, Alderton, 196th, 126th, 194th, 173rd and Beach 108th Sts., Jamaica, 114th, 35th, 44th and 34th Aves.

S. D., Dell Rapids—City Council, bids about Feb. 25, 3,000 lin.ft. 12 in. outlet sewer and disposal plant. $25,000. Buell & Winters Co., 510 Insurance Bldg., Sioux City, Ia., engrs. Noted Dec. 24.

Ont., Ottawa — Secretary Bd. Control bids about Feb. 1, new storm sewer along Rideau Canal from Levis St. to Ottawa River, $600,000; 30 and 24 in. rein.-con., vitr. clay sewer in York St. from William to Sussex Sts., $25,000. F. C. Askwith, City Hall, engr.

Ont., Pembroke—See "Contracts Awarded."

CONTRACTS AWARDED

Ill., Decatur—Decatur Sanitary Dist., W. C. Field, pres., sewage disposal plant, incl. mechanically cleaned settling tank for storm water treatment, 50 ft. heated sludge digestion tank, 50 ft. sludge storage tank, provision for collecting digestion gases, pumping station to pump the sludge, to R. Christy, Decatur, $55,000 to $57,000 depending on alternates finally used. Noted Dec. 24.

Md., Baltimore—Bd. Awards, sanitary sewers in Sanitary Contr. 281, incl. 2,962 lin.ft. excav., trench and tunnel for 24 and 27 in. vitr. sewer; 2,962 lin.ft. 24 and 27 in. vitr. sewer, concrete encased, 1,200 lin.ft. 6 in. underdrain, to P. Marocco, 231 South Exeter St., $25,550.

N. J., Hackensack—Hackensack Impvt. Comn., Municipal Bldg., sanitary and storm sewers in River St., Sect. 2, to Di Brigida & Son, Inc., 65 Hudson St., $34,369; storm and sanitary sewers, River St., Sect. 1, to Di Napoli, Inc., Terhune Ave., $63,969.

N. Y., Brooklyn—H. Hesterberg, pres. Brooklyn Boro, Boro Hall, sewers in Rockaway Ave., to R. Nazzarro, Inc., 7101 11th Ave., $102,588; in Delamare Pl. and East 48th St., to W. Feranti, 15-81 Hendrickson St. $6,702 and $20,611 respectively. Grand total $219,901. Noted Dec. 17.

N. Y., Brooklyn — H. Hesterberg, pres. Brooklyn Boro, Boro Hall, sewer in Burnett St., to M. Fornara, 216 1st Ave.; $2,419; Caton Ave., to Lega Constr. Co., $2,522. Noted Dec. 31.

N. Y., New York—W. H. Gahagan Co., 147 Remsen St., Brooklyn, 40,000 porous plates in new activated sludge plant, Wards Island, to Norton Co., 53 Park Pl., New York, for Sanitary Comn., W. Schroeder, Jr., chn., Municipal Bldg., $70,000. Noted June 18.

Wis., Sheboygan—City will buy material and install storm sewers in Lakeshore Dr., South 7th and South 8th Sts., Humboldt and Mead Aves., day labor. $25,000. A. L. Bolg, City Hall, engr.

Ont., Islington—Etobicoke Twp., 4 mi. 9- to 18-in. sanitary sewers, to French River Constr. Co., 2 Henderson St., Toronto; pipe, to National Sewer Pipe Co., Metropolitan Bldg., Toronto, and to Canadian Vitrified Tile Products Co., St. Thomas. Est. $60,000. Noted Nov. 19.

Ont., Pembroke—Town, Lake Street Trunk Sewer, 1,000 lin.ft. 24 in. concrete pipe, to H. Hayley, Hurdmans Rd., Ottawa; 5,000 lin.ft. 12- to 24-in. vitr. tile pipe, to National Sewer Pipe Co., Metropolitan Bldg., Toronto; laying pipe, by day labor. Est. $60,000. J. P. Howe, Pembroke, engr. Noted Oct. 15.

Ont., Toronto—North York Twp., 12- to 18-in. sanitary sewers in Bway. Ave.; 12 in. sanitary sewers in Walder, McBain, Cardiff, Rawley and Rupert Sts. $26,805. Work will be done mostly by day labor. G. Baker, Willowdale, engr.

WASTE DISPOSAL

BIDS ASKED

Ind., Indianapolis—Jan. 26, by Bd. Sanitary Comrs., City Hall, B. J. T. Jeup, pres., fabricating, furnishnig, installing 32 or less digesters, incl. removal all old digesters in garbage reduction plant. $30,000. A. H. Moore, 930 Knights of Pythias Bldg., engr. Noted Nov. 26.

Pa., Johnstown—City, M. X. Smith, dir. Pub. Safety, complete renovation present incinerator plant, using only shell of present building, new 125 ft. stack, scale house, 110 ton furnace, Elk Run Rd., to D. N. Corp., Reynolds Bldg., Winston-Salem, N. C., $37,950. Court injunction holding up work for present. Noted Dec. 10.

BRIDGES

PROPOSED WORK

N. J., Newark—State Hy. Comn., State House, Trenton, preliminary plans steel, concrete viaduct on Route 21, along New Jersey Railroad Ave. $25,000 or more.

Okla., Choctaw—B. E. Carrigan, clk. Oklahoma Co., Court House, Oklahoma City, rejected bids Dec. 7, 2 span 220 ft. steel truss bridge on concrete piers. $25,000. J. F. Frazier, Court House, Oklahoma City, engr. Noted Nov. 27.

Okla., Tulsa—City and Reginal Comn., 104 Municipal Bldg., 1932 program, incl. Quanah Avenue Viaduct over Belt Line R.R. $125,000—widening Arkansas River bridge and completing 21st St. Bridge, $725,000—subways under Missouri-Kansas-Texas R.R. at Boston Ave. $170,000—at Boulder Ave. $150,000. H. G. Buckingham, 12 North Union St., engr.

R. I., Providence—City, sketches and study concrete, steel bridge, Market Sq. To exceed $25,000. F. L. Ackerman, 25 West 44th St., New York, engr.

BIDS ASKED

Illinois—Jan. 27, by State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, extending rein.-con. arch bridge, also rein.-con. retaining wall, Route 4A, Sect. DY-B, Dist. 1 Will Co.—one 64 ft., eight 99 ft., fourteen 91 ft., six 83 ft. and one 91 ft. span steel superstructure, Route 46, Sect. 462V-C Dist. 1 Cook Co.—one 45 ft. rein.-con. girder bridge, Sect. 112-B—two 40 ft. and one 45 ft. span rein.-con. girder bridge, Sect. 113-B—three 28 ft. span rein.-con. slab bridge, two 24 ft. and one 40 ft. span rein.-con. girder bridge, Sect. 114-B, all Route 185, Dist. 7 Fayette Co. F. T. Sheets, hy. engr.

Kansas—See "Streets and Roads."

Massachusetts—Jan. 26, by Dpt. P. Wks., State House, Boston, 273 ft. 2 truss and two 49 ft. stringer approach span bridge over Westfield River, Westfield, and incidental hy. work. A. W. Dean, Dpt. P. Wks., Boston, engr.

Virginia—Feb. 2, by State Hy. Dpt., Richmond, 30 ft. span rein.-con. beam bridge over Georges Creek, Route 20, Project F-696-B1 Pittsylvania Co.—three 25 ft. span rein.-con. beam bridge over Stinking Creek, Route 20, Project F-696-B2—two 30 ft. span rein.-con. beam bridge over Frying Pan Creek, Route 20, Project F-744-B1, all Pittsylvania Co.—concrete paving and constructing concrete bridge over Falling Creek, Route 31, Project F-173-ARB,1 Chesterfield Co. H. G. Shirley, hy. engr. Adv. E. N.-R. Jan. 21.

Wash., Bellingham — Feb. 2, by State Hy. Dpt., Olympia, S. J. Humes, dir., 330 ft. rein.-con. girder bridge, consisting of one 50 ft. and seven 40 ft. spans, 30 ft. roadway, two 5 ft. sidewalks on route of State Rd. 1 at 12th St.

Ont., Oshawa—See "Contracts Awarded."

CONTRACTS AWARDED

Indiana—State Hy. Comn., Indianapolis, J. J. Brown, dir., steel truss bridge, Contr. 457, Martin Co., to R. P. Olinger, Huntingburg, $89,146 est. $120,000; 3 concrete, steel bridges, Contr. 454, Newton and White Counties, to Kruzick Bros., Winamac, $18,522 est. $24,253. Noted Dec. 10.

Indiana—State Hy. Comn., Indianapolis, 1 span 75 ft. rein.-con. arch bridge over Duck Creek, Contr. 450, Franklin Co., to I. E. Smith Constr. Co., Richmond, $8,979 est. $12,591; 3 span 198 ft. steel truss bridge over White River, Contr. 451, Franklin Co., to R. C. Mahon Co., 8650 Mt. Elliott St., Detroit, Mich., $67,679 est. $91,447. Noted Oct. 22.

Michigan — J. T. Sharpensteen, div. engr., Escanaba, Federal Bridge 1 of 27-6-8 Contrs. 2 and 3, incl. one 40 ft. span steel deck girder, 2 rein.-con. abutments, 30 ft. roadway over Jackson Creek, Gogebic Co., for State Hy. Comn., Lansing, to Chisholm Constr. Co., Bessemer, $12,026. Noted Nov. 26.

Michigan — H. W. Hagaman, div. engr., Saginaw, FBr. 1 of 56-8-4 Contr. 2, 2 rein.-con. semi-gravity type abutments over Salt River and FBr. 1 of 56-9-2, Contr. rein.-con. semi-gravity type abutments and 2 rein.-con. skeleton type piers, over Tittabawassee River in Sanford, both Midland Co., for State Hy. Comn., Lansing, to Frank J. Byrne & Son, Saginaw, for $9,290 and $17,567 respectively. Noted Dec. 24.

New Jersey — State Hy. Comn., Trenton, bridge to carry Route 40, Sect. 6, over Phila. & Long Branch R.R., near Upton Station, Burlington Co., to Hill Constr. Co., Mount Holly $32,628. Noted Dec. 24.

Ohio—O. W. Merrell, dir. hys., Columbus, three 40 ft. span creosoted timber bridge with steel stringers, 30 ft. roadway over White Wash Creek, Sect. "A" Greenville-New Paris Rd., Preble Co., to Brookville Bridge Co., Brookville, $12,666—14 ft. span, 10 ft. height, 11.9 ft. long, concrete box culvert over Ryan Fork, Sect. "O" Ohio River Rd., Clermont Co., to S. Monroe & Sons, Portsmouth, $16,404—four 42 ft. span, creosoted timber bridge with steel stringers, 24 ft. roadway, over Laurel Run, Sect. "C" Chillicothe-Logan Rd., Hocking Co. and two 41.25 ft. span, and one 42.5 ft. span creosoted timber bridge with steel stringers, two 3.5 ft. sidewalks, over Bokes Creek, Sect. "Mahnetic Springs" Richwood-Delaware Rd., Union Co., to Middle States Constr. Co., 1183 Essex Ave., Columbus, $10,300 and $12,561 respectively—three 35 ft. span, creosoted timber bridge with steel stringers, 24 ft. roadway over two 3.5 sidewalks over Rocky Fork Creek, Sect. "F-2" Mansfield-Wooster Rd., Richland Co., to George B. Herring & Son, Mansfield, $16,568—three 35 ft. span creosoted timber bridge with steel stringers, 24 ft. roadway over Ludlow Creek, Sect. "A" Greenville-Milton Rd., Miami Co., to Sweeney & Summer, Troy, $11,587—two 40 ft. span concrete beam bridge, 30 ft. roadway, two 5 ft. sidewalks, over Salt Creek, Sect. "Jackson" Chillicothe-Jackson Rd., Jackson Co., to P. E. Bickel, Inc., Massillon, $15,007—three 25 ft. span continuous concrete slab bridge over branch Mahoning River Sect. "C" Alliance-Salem Rd., Mahoning Co., to E. E. Miller & Sons, Canfield, $11,587—three 35 ft. span creosoted timber bridge with steel stringers, 30 ft. roadway over Little Darby Creek, Sect. "B" Dublin-Mutual Rd., Union Co., to G. W. Timmons, 453 East Hudson St., Columbus, $10,812—two 45 ft. span concrete beam bridge 29 ft. roadway and two 2.4 ft. sidewalks over Sycamore Creek, Sect. "Sycamore" Upper Sandusky-Bellevue Rd., Wyandot Co., to Kear & Baker, Wharton, $16,975. Grand total $134,467.

Ohio—O. W. Merrell, state hy. dir., Columbus, steel, concrete bridge and 1 sidewalk over Mad River, Hy. 40, Clark Co., to Ross Constr. Co., Columbus, $36,862. Noted Dec. 24.

O., Cleveland — New York, Chicago & St. Louis R.R. Co., Terminal Tower, repairing, replacing steel work, involving 300 tons structural steel for bridge, Flats Dists., to Amer. Bridge Co., Rockefeller Bldg.

Okla., Oklahoma City—B. E. Carrigan, clk. Oklahoma Co., Spencer Bridge, 6 spans 97 ft. long rein.-con., to L. M. Mackey, Oklahoma City, $18,149; Eastern Avenue Bridge, 3 spans 330 ft. long, steel truss on concrete piers, to Green Constr. Co., 519½ West Main St., $28,984. Noted Dec. 3.

Wisconsin — State Hy. Comn., and Buffalo, Jackson and Monroe Counties, Batavian Natl. Bank Bldg., LaCrosse, Famian Bridge, Buffalo Co. and culverts on Tomah-Millston Rd., to Nelson, Mullen & Nelson, 35 Gateway Bank Bldg., Minneapolis, Minn., $1,607 and $5,172 respectively—bridges, culverts on Black River Falls-Millstone Rd., Jackson Co., to A. Brown & Co., Chippewa Falls, $3,331—Tomah-Millston Rd., to L. Schroeder, Cashton, $5,978. Grand total $16,088. Noted Dec. 31.

Ont., Oshawa—City Council, 100 ft. concrete bridge over Oshawa Creek, at Bond St., day labor. $35,000. F. B. Doedike, City Office, engr. Noted Dec. 10.

Ont., Sarnia — City Council, structural steel highway bridge on concrete found. over St. Clair tunnel cut at Vidal St., to Sarnia Bridge Co., Sarnia, $39,400; foundation, to Sweet & Dewar, 171 Brock St.

Ont., Welland—J. D. Watt, city clk., 300 ft. concrete, rein.-con., steel bridge over Welland River at Main St. N., to Gardner Constr. Co., 22 Cross St., $74,924. Est. $75,000. Noted Nov. 19.

STREETS AND ROADS

BID ASKED

California—Jan. 27, by C. H. Purcell, engr. State Hy. Comn., Sacramento, grading 13.9 mi. road between Cloverdale and Hopland, Sonoma and Mendocino Counties; grading, concrete paving 3.4 mi. road between Union Ave. and Stevens Creek Rd., Santa Clara Co.

Calif., Los Angeles—Jan. 27, by Bd. P. Wks., City Hall, improving 6,379 ft. Morningside Way and Glyndon Avenue Impvt. Dist., incl. 172,062 sq.ft. 4 and 7 in. National asphaltic concrete on 4 and 5 in. asphaltic concrete base with 2 in. wearing surface paving, 3,058 ft. 4 and 7 in. concrete paving, 7,423 sq.ft. one course paving, sidewalks, also 2,443 lin.ft. unplastered light curb, 13,542 sq.ft. 7 in. concrete gutter, fire hydrants, appurtenances, removing 1,031 lin.ft. curbing, 1,213 sq.ft. sidewalk, 477 sq.ft. driveways, 22 stumps. To exceed $25,000. Former bids rejected. J. J. Jessup, City Hall, engr. Noted Aug. 20.

Delaware—Feb. 9, by State Hy. Dpt., Dover, grading 2.538 mi. Dual Rd., Contr. 216—fill and borrow 2,000 ft. 7th St., New Castle, Contr. 241, both New Castle Co.—2,000 ft. East Lockerman St., Kent Co., Contr. 227—grading, borrow, laying sidewalks, 1,700 ft. Christiana Sidewalk, Contr. 246 — 2,200 ft. Centreville Sidewalks, Contr. 247—grading, laying sidewalks, 3,000 ft. Phila. Pike and Marsh Rd., Contr. 245, foregoing in New Castle Co.—laying concrete sidewalk, 2,350 ft. Sussex Co., Contr. 243—clearing 10 acres and grubbing 10 acres 6.7 mi. Sandy-Fork-Bryans Store, Sussex Co., Contr. 244—grading, borrow, concrete paving 0.47 mi. Jimtown Crossing-Clayton School, Contr. 242—clearing, grubbing, grading, concrete paving 3.519 mi. Willow Grove-Woodside, Contr. 225, both Kent Co.—furnishing material and driving piling 150 ft. Slaughter Beach Groin, Contr. "X"—supplying trees for planting along state hys., Contr. "Y." W. W. Mack, Dover, hy. engr.

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Streets and Roads (Continued)

Illinois—Jan. 27, by State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, concrete, bituminous filled brick on concrete, bituminous concrete (fine or coarse graded aggregated type) on concrete surfacing 0.31 mi. Route 3, Sect. 38V-X Dist. 2, Ogle Co.—0.4 mi. Route 4-A, Sect. D-Y, Dist. 1, Will Co., both 18 ft. wide—0.33 mi. Route 5, Sect. 6--S, 40 ft.—6.93 mi. Route 53, Sect. 532, 20 ft., both Dist. 1, Cook and Dupage Counties—1.05 mi. Route 21, Sect. H-R, 40 ft.—2.7 mi. Route 52, Sect. 522, 20 ft.—2.26 mi. Route 62, Sect. 117, 20 ft., all Dist. 1, Cook Co.—4.08 mi. Route 42-A, Sect. C-Y, two 11 ft. strips, Dist. 1, Lake Co.—0.08 mi. Route 101, Sect. 120X, 18 ft., Dist. 6, Schuyler Co.—12.02 mi. Route 147, Sect. 113, 18 ft., Dist. 9, Williamson and Johnson Counties 9.38 mi. Route 147, Sect. 114, 18 ft., Dist. 1, Johnson Co.—4.31 mi. Route 151, Sect. 114-X, 18 ft., Dist. 9, Jackson Co.—grading, drainage structures 0.19 mi. Route 120, Sect. 118, Dist. 5 DeWitt Co.—1.12 mi. Route 121, Sect. 134S-A, Dist. 5, Logan Co.—4.84 mi. Route 185, Sect. 112A—3.56 mi. Route 185, Sect. 113-A—11.23 mi. Route 185, Sect. 114-A, all Dist. 7, Fayette Co. F. T. Sheets, hy. engr.

Indiana—Feb. 2, by State Hy. Comn., Indianapolis, **(P. means Project and F.A.P. Federal Aid Project)** concrete, bituminous concrete, brick, asphaltic macadam or brick surfacing 13.188 mi. State Rd. 6, F.A.P. 210-B Elkhart and Noble Counties—8.536 mi. State Rd. 36, F.A.P. 211-A Putnam Co.—8.262 mi. State Rd. 36, incl. approaches to overhead crossing west of Montezuma, F.A.P. 218 and P. 205-A1 Parke and Vermillion Counties—9.635 mi. State Rd. 66, F.A.P. 236-A Posey Co.—8.519 mi. State Rd. 66, F.A.P. 236-B Posey and Vanderburg Counties—681 mi. State Rd. 46, P255-A Clay Co. all foregoing 20 ft. wide—9.622 mi. State Rd. 47, P. 241-B Montgomery Co.—2.832 mi. State Rd. 39, P. 281 Elkhart Co., both 18 ft. wide—widening, paving (as above) 0.192 mi. State Rd. 30, F.A.P. 203-B 40 ft., Lake Co.—0.45 mi. State Roads 24 and 31, P. 228 40 ft., Miami Co.—0.946 mi. State Rd. 29, P. 238-A-1, 36 ft., Pulaski Co.— concrete, brick, bituminous retread, bituminous coated aggregate or rock asphalt surfacing 10.516 mi. State Rd. 29, F.A.P. 280-A Jefferson Co.—12.545 mi. State Rd. 29, F.A.P. 280-B, Ripley Co, both 18 to 20 ft. wide. J. J. Brown, dir.

Ind., Indianapolis—Jan. 25, by City Council, grading, curbing, guttering, sewers, drainage structures, sidewalks, asphalt paving 4,305 ft. West Michigan St. from Tibbs Ave. to Little Eagle Creek, 40 ft. $32,061. A. H. Moore, Knights of Pythias Bldg., engr.

Ia., Cresco—Howard Co., 1932 construction program, incl. road work $50,000, bridges $12,000. L. L. Lowry, Court House, engr.

Kansas—Feb. 2, by State Hy. Comn., Court House, McPherson **(F.A.P. means Federal Aid Project)**, concrete surfacing 0.05 mi. U. S. Hy. 81, F.A.P. 278-D—grading, culverts 1.851 mi. U. S. Hy. 81, F.A.P. 278-E—12.168 mi. U. S. Hy. 81, F.A.P. 278-D, all foregoing 20 and 30 ft., McPherson Co.—Bridge 1, four 30 ft. span deck girder, 24 ft. roadway—Bridge 2, three 7 x 7 x 30 ft. multiple box culverts—Bridge 3, four 30 ft. deck girder spans, 24 ft. roadway—Bridge 4, seven 10 x 10 x 30 ft. multiple box spans—Bridge 5, four 9 x 9 x 30 ft. multiple box spans—Bridge 6, five 30 ft. deck girder spans, 24 ft. roadway—Bridge 7, three 8 x 5 x 30 ft. multiple box spans—Bridge 8, four 8 x 6 x 30 ft. multiple box spans—Bridge 9, three 9 x 5 x 35 ft. multiple box spans—Bridge 10, four 14 x 12 x 30 ft. multiple box spans, all U. S. Hy. 81, F.A.P. 278-F, McPherson Co. W. V. Buck, Topeka, engr.

Kansas—Feb. 3, by State Hy. Comn., **Olathe**, grading, drainage structures 7.687 mi. U. S. Hy. 50-44, Federal Aid Project 404-E, Johnson Co., incl. two 10 ft. and two 14 ft. multiple box spans, six 30 ft. deck girder spans. W. V. Buck, Topeka, hy. engr.

Kansas—Feb. 3, by State Hy. Comn., Court House, Olathe, **(K.P. means Kansas Project and F.A.P. Federal Aid Project)**, grading, drainage structures, culverts 1 mi. K.P. 11, F.A.P. 184-A—2.046 mi. K.P. 9, F.A.P. 407-B—0.338 mi. K.P. 9, F.A.P. 435-B—8.494 mi. K.P. 11, F.A.P. 441-A—5.013 mi. K.P. 11, F.A.P. 441-B, 30 ft. wide, Marshall, Atchison and Pottawatomie Counties—sand gravel or chats surfacing 4 mi. U. S. Hy. 77, K.P. 1238—regraveling 8.1 mi. U. S. Hy. 77, K.P. 7528—sand gravel surfacing 6.597 mi. U. S. Hy. 77, F.A.P. 409-B, all Riley Co.—9.5 mi. K.P. 10-1296 Douglas Co.—6.457 mi. K.P. 9-1297 Nemaha Co.—regravel surfacing 10.1 mi. U. S. Hy. 50S, K.P. 7527 Osage Co.—8.5 mi. U. S. Hy. 77, K.P. 7529 Marshall Co.—Bridge 1 one 90 ft. steel truss span, seven 40 ft. deck girder spans—Bridge 2 one 70 ft. steel truss span, four 25 ft. deck girder spans, both 24 ft. roadway, K.P.9, F.A.P. 407-B, Atchison Co.—Bridge 1, 90 ft. steel truss span, four 40 ft. deck girder spans, 24 ft. roadway—Bridge 2, five 10 x 7 x 30 ft. multiple box spans—Bridge 3, three 7 x 3 x 30 ft. multiple box spans—Bridge 4, five 35 ft. deck girder spans, 24 ft. roadway, all K.P. 11, F.A.P. 441 Marshall Co.—Bridge 1, two 10 x 9 x 30 ft. multiple box spans, K.P. 11, F.A.P. 441 Pottawatomie Co.—five 8 x 5 x 30 ft. multiple box span, U. S. Hy. 50S F.A.P. 30-B, Lyon Co. W. V. Buck, Topeka, hy. engr.

Md., Baltimore — Jan. 27, by Bd. Awards, grading 60,000 cu.yd. streets listed in Contr. 607. G. Cobb, Municipal Bldg., hys. engr.

Mississippi—Jan. 26, by State Hy. Comn., Jackson, paving 3.781 mi. U. S. Hy. 11 between Meridian, Miss., and Livingston, Ala., Lauderdale Co. C. M. Williamson, dir.

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Mississippi—Feb. 9, by State Hy. Comn., Jackson, grading 2,400 lin.ft. Mississippi side approach to bridge over Escatawapa (Dog) River on Lucedale-Moble (Ala.) Rd., George Co.; 93,309 cu.yd. hyraulic settlement of fills by pressure jetting, on 3 or more sections Jackson-Canton Rd., Federal Aid Project 79-B Madison Co. C. M. Williamson, dir.

O., Cincinnati—Jan. 29, by Comrs. Hamilton Co., grading, concrete curbing, concrete paving 21,000 sq.yd. Delhi Rd. from corp. line of Cincinnati to Tanner Rd. $276,864. E. A. Gast, Court House, engr.

Washington — Feb. 2, by State Hy. Comn., Olympia, S. J. Humes, dir., concrete surfacing 0.7 mi. State Rd. 1, Peace Portal Dr. and East Peace Portal Dr., Federal Aid Project 137-D, in Blaine; also 4 ft. widening existing pavement, high early strength concrete surfacing 1.4 mi. State Rd. 1 from Ferndale north, both Whatcom Co.

Washington—Feb. 2, by S. J. Humes, dir. Hys., Olympia, grading, draining 2.5 mi. State Rd. 3, Selah Moxee Tunnel to Yakima, F.A.P. 105-C, Yakima Co.—12 mi. S. Rd. 4, Forest Line South, F.A.P. 177-B, Ferry Co.—grading 2.7 mi. State Rd. 5, Clear Fork to South Boundary of Rainer Park, Lewis Co.—crushed stone surfacing 14.2 mi. State Rd. 8, Grand Dalles to Museum, Klickitat Co.

Washington—Feb. 9, at office S. J. Humes, dir. Hys., Olympia, clearing, grading, crushed stone surfacing 3.7 mi. State Rd. 5, Forest Line to Park Entrance, Pierce Co.—grading, culverts 6.6 mi. State Rd. 22, Evans North, Stevens Co.

Wash., Asotin—Comrs. Asotin Co., bids about Feb. 7, Clarkston-Peola Hy. $40,000. J. Swain, Asotin, engr.

Wash., Seattle—Comrs. King Co., bids about Jan. 20, 8 ft. graveled shoulders, concrete paving 7 mi. 1st Ave. S. extension, 20 ft. $170,000. T. D. Hunt, Seattle, co. engr.

CONTRACTS AWARDED

Ark., Clarksville—L. King, D. Dyer and W. Spanks, members Bd. Street Impvt. Dist. 4, grading, drainage structures, guttering, warrenite asphalt paving 11,000 sq.yd., concrete paving 22,000 sq.yd. Main St., et al, to E. F. Luke & Co., Ft. Smith. Est. $75,000. Noted Aug. 13.

California — State Hy. Comn., Sacramento, grading, drainage structures, concrete surfacing 14.6 mi. road between Tecate Divide and Mountain Springs, San Diego and Imperial Counties, to Matich Bros., Elsinore, $289,865. Noted Dec. 24.

Delaware — State Hy. Dpt., Dover, grading, concrete sidewalks, 6,600 ft. Price's Corner to Marshallton, Contr. 107, to J. Thomas, New Castle, $10,950—2,280 ft. Cheswold-Bishop's Corner Sidewalk, Contr. 234, to Gooden & Clark, Dover, $2,346—grading, concrete paving 3.51 mi. Kenton-Blackiston Crossroads, Contr. 184, to George & Lynch, Dover, $44,681—grading 2.2 mi. Dual Rd., Hare's Corner-Farnhurst, Contr. 218 and clearing, grubbing, grading, concrete paving 1.5 1.48 mi. Washington St. Extension, to Philadelphia Pike, Contr. 224, to V. Schiavi, 559 McKinley Parkway, Buffalo, N. Y., $53,010 and $48,905 respectively—clearing, grubbing 0.62 mi. Delaware Colony Rd., Contr. 233, to Highway Engrs. & Constr. Co., Selbyville, $1,080. Grand total $160,872. Noted Dec. 3.

Delaware — State Hy. Dpt., Dover, grading, borrow, concrete sidewalks 6,895 ft. Newport-Cranston Heights Sidewalk, Contr. 207, and borrow 0.479 mi. Chestnut St. Cutoff-New Castle, Contr. 219, to D. E. O'Connell & Sons, Ridley Park, Pa., $9,768 and $26,934 respectively—380 ft. timber bridge, 5,000 lin.ft. creosoted timber piling, 2,000 ft. B. M. sheet piling and 77,000 ft. B. M. creosoted timber, Woodland Beach Causeway, Contr. 208, to Tunstall-Johnson Co., Inc., Norfolk, Va., $9,217—clearing, grubbing, grading, concrete paving 4.76 mi. Reynolds Corner-Fieldsboro, Contr. 220, to V. Schiavi, 559 McKinley Parkway, Buffalo, N. Y., $189,155—grading, borrow, concrete sidewalk 5,530 ft. McDaniels Heights-Tallyville Sidewalk, Contr. 221, to Zecco & Turana, Phila., Pa., $8,285—grading, borrow, concrete sidewalk 1,510 ft. Townsend-Ginns Corner Sidewalk, Contr. 222, to Smyrna Cement Products Co., Smyrna, $2,036—grading, borrow, concrete sidewalk 4,150 ft. Laurel towards Delmar, Contr. 223, to Hickman & Short, Bethany Beach, $4,370. Grand total $249,765. Rejected bids 20,000 lb. 50% ditching dynamite, Contr. W. Noted Nov. 12.

Georgia—State Hy. Dpt., East Point, reconstructing, paving 2.77 mi. State Aid Project 432-C, Glynn Co., to J. E. Ballenger, Lakeland, Fla., $19,254—grading 3.273 mi. Ellaville-Butler Rd., Federal Aid Project 393-E, Taylor Co. and 11.041 mi. Madison-Greensboro Rd., Federal Aid Project 179-B, Greene Co., to L. L. Law Constr. Co., Gainesville, $13,896 and $52,528 respectively. Grand total $85,678.

Ill., Jerseyville—Jersey Co., 6 in. gravel surfacing 4.2846 mi. State Routes 6 and 7, Sect. 6 M.F.T., 18 ft. with 6 ft. earth shoulders, to C. A. Hackett, Decatur, $28,741.

Ill., Murphysboro — Jackson Co., to M. Wunderlich, Jefferson City, Mo., gravel surfacing 3.5 mi. State Aid Route, 3A, Sect. IX M.F.T., $13,148; 1.66 mi. same road Sect. IG M.F.T. $8,673; 3.818 mi. State Aid Route 4, Sect. 2G, M.F.T. $7,532, grading, drainage structures 1.091 mi. same road. Sect. 3A, M.F.T. $15,068. Grand total $44,421.

Indiana—State Hy. Comn., Indianapolis, concrete surfacing 14.729 mi. Rd. 18, Federal Aid Project 239-A and B, 20 ft., Blackford and Grant Counties, to Bigler Paving Co., Mi town, O., $204,653. Est. $319,377. Noted Nov. 12.

Ind., Winchester — Randolph Co., grading, drainage structures, concrete and bituminous concrete surfacing 15,705 ft. W. S. Preston to P. B. Putnam, 2222 Kensington St., Ft. Wayne, $42,199. Est. $54,603. Noted Dec. 3.

Kansas—State Hy. Comn., at office Engineer First Division, Masonic Temple, Topeka, **(P. means Project)**, to Bert Metzger, Ozawkie, sand gravel surfacing 15.2 mi. P. 4-22-7509 Wabaunsee Co. $6,749 — to Orr Constr. Co., Lecompton, 7.5 mi. P. 10-9-7510 Shawnee Co. $3,038; 1.6 mi. P. 77-19-7516 Geary Co. $[illegible]—to McMillan & Furman, Eldorado, 0.5 mi. P. 11-14-7511 $390; 6 mi. P. 11-15-7512 $3,900, both Lyon Co.—2.24 mi. P. 50S-39-7515 Osage Co. $4,032—to Cook & Cone, Ottawa, 5.1 mi. P. 1630-7513 Atchison Co. $2,805; 4.1 mi. P. 36-35-7514 Doniphan Co. $2,632. Grand total $23,972. Noted Dec. 24.

Kan., Kansas City—City Council, to R. R. Schooley, 3908 Forest St., grading, curbing, 3 in. brick paving State Ave., $26,185; to Brown Bros., 24th St. and Steel Rd., grading, concrete paving 15th St. at $0.40 for grading, $1.40 per sq.yd. for paving, est. $734, also removing old bridge and constructing new bridge over Jersey Creek, at 8th St. $11,858.

Maryland—State Roads Comn., G. C. Uhl chn., Baltimore, gravel surfacing 1.91 mi. hy. from Dundirk toward Ferry Landing and from Southern Blvd.-Mt. Harmony Rd. toward Owings, Contr. C-56-84, Calvert Co., to L. R. Colbert, Fredericksburg, Va., $12,612. Noted Nov. 5.

Maryland—State Roads Comn., G. C. Uhl chn., Baltimore, gravel surfacing 4.46 mi. hy. from Chesapeake Beach towards Plum Point, Contr. C-54-84, Calvert Co., to Jarboe & Haughton, Mechanicsville, $64,358. Noted Nov. 19.

Michigan—A. L. Burridge, div. engr., Cadillac, shaping, grading, drainage structures, gravel surfacing 1.468 mi. MO72-20C-1, Roscommon Co., for State Hy. Comn., Lansing, to Persinger Excavating Co., Lincoln Park, $14,885. Noted Dec. 17.

Michigan—H. W. Hagaman, div. engr., 501 Eddy Bldg., Saginaw, grading, drainage structures 3 mi. FO56-15C-4, Midland Co., to L. W. Wells, Saginaw, for State Hy. Comn., Lansing, $20,921. Noted Dec. 24.

Michigan—W. J. Kingscott, div. engr., 213 Watson Bldg., Grand Rapids, grading, drainage structures 2.124 mi. MO62-27C-1, Newaygo Co., to John R. Edelman Co., Muskegon Heights, for State Hy. Comn., Lansing, $22,095. Noted Dec. 24.

Michigan—H. G. Oakes, div. engr., Plymouth, grading, grading, drainage structures 5.222 mi. FO13-22C-1, Calhoun Co., for State Hy. Comn., Lansing, to Grace Constr. & Supply Co., Marshall, Mich., $24,464. Noted Dec. 17.

Mississippi—State Hy. Comn. Jackson, clearing, grubbing, grading, drainage structures 2.178 mi. road in Lauderdale Co., incl. concrete, steel bridges, to Hartman-Clarke Constr. Co., Jackson, and 920 Peoria Life Insurance Co., Peoria, Ill., $18,089—concrete surfacing 1,800 sq.yd. Laflore Co., to Herbert Cargile Constr. Co., Birmingham, Ala., $2,210—clearing, grubbing, grading, drainage structures 2.658 mi. Adams Co., to Midland Constr. Co., Clarksdale, $27,328. Grand total $47,627. Noted Dec. 17.

Missouri — State Hy. Comn., Jefferson City, grading, graveling, crushed stone surfacing 2.735 mi. Route 64-Tunas, Sect. 75, and 3.774 mi. Tunas-Leadmine Rd. Route SE, Sect. 1, Dallas Co., to J. R. Brownfield, Ozark, $18,269 and $10,419 respectively — graveling 3.924 mi. Marshfield-Diggins Rd. Route SA, Sect. 2A, Webster Co., and 4.4115 mi. Sect. 1 same road, to Chaney & Amyx, Branson, $1,955 and $8,804 respectively—1.583 mi. Highlandville Rd. S. Sect. 107B, Christian Co., and 2.699 mi. Sect. 108B same road, to J. A. Kerr, Ozark, $5,294 and $16,151 respectively. Grand total $60,882.

Mo., Clayton—St. Louis Co., Court House, grading, rein.-con. paving 8,172 ft. Lucas and Hunt Rd. 20 ft., to Webb-Boone Paving Co., 5103 Fyler Ave., St. Louis, $61,670. Noted Dec. 17.

N. J., Jersey City—Bd. Blvd. Comrs., Court House, repairing asphalt paving Hudson Co. Blvd. and Hudson Co. Blvd. East, in Jersey City, Bayonne, Union City and West New York, Hudson Co., to Clinton Asphalt Co., 308 16th St., Union City. Est. $25,000.

New Mexico—W. R. Eccles, engr. State Hy. Dpt., Santa Fe, grading, drainage structures, markers, wire fencing, crushed gravel base surfacing 10.4 mi. F.A.P. 8-A, 20.5 ft., Charles Co., to Hill & Helfin, Artesia, $82,619—grading, drainage structures, markers, blanket protection maricopia type concrete surfacing 1.6 mi. F.A.P. 176-A, 20.5 ft., Dona Ana Co., and 0.92 mi. F.A.P. 168-A, 20.5 ft., Grant Co., to A. O. Peabody, Las Cruces, $32,661-$31,591 respectively—delivering 5,600 bbl. road oil at Roswell, 10,200 bbl. at Carlsbad and 1,700 bbl. at Scholle, Charles, Eddy and Valencia Counties, to Colorado-Texas Co., Colorado, Tex., $36,385. Grand total $183,256. Noted Dec. 24.

N. Y., Brooklyn—H. Hesterberg, pres. Brooklyn Boro, Boro Hall; to R. Lynster, 454 East 49th St., granite block paving Bush St. $48,734—to Meehan Paving Co., 90 West St., New York, Main St. $18,409—to D. J. McCoy Asphalt Co., Avenue U and East 57th St., asphalt paving East 5th St. $2,850—to B. Turecamo, New Crospey Lane, Elmore Pl. $6,031; Quentin Rd., $17,566; Avenue S $6,044—to Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., Glenwood Rd. $17,240—to A.

Streets and Roads (Continued)

Suriano, foot 24th Ave., East 5th St. $4,133—to Concrete Co., Metropolitan Ave., Avenue U $2,954. Grand total $123,961. Noted Dec. 17.

O., Cincinnati — Hamilton Co., grading, tar bound macadam paving 8,438 ft. McKelvey Rd. from Grove to Brower Rds., 16 ft., to J. Weil, Cleves and Louisville Pk., $23,048 est. $28,985; 18,562 ft. Lawrenceburg Rd. from I. C. H. 42 to Kilby Rd., 16 ft., to O. E. Radabaugh, Cornell Rd., Hazelwood, $48,648 est. $60,290. Noted Dec. 24.

Oklahoma—State Hy. Dpt. Oklahoma City, grading, drainage structures 8.445 mi. Federal Aid Project 258-B and C. 32 ft., Harmon Co., to Kadane Constr. Co., Frederick, $16,760. Est. $25,000. Noted Nov. 5.

Pennsylvania — State Hy. Dpt., Harrisburg, grading, waterbound macadam surfacing 6,164 sq.yd. Route 149, Womelsdorf Boro, Marion Twp., Berks Co., to Sapelli Bros. & Hertz, Ephrata, $11,117—grading, concrete surfacing 4 small bridges, 222 ft. total length, Route 360, Wayne Twp., Greene Co., to Keystone Paving Co., Harrisburg, $109,156—grading, drainage structures 23,000 cu.yd. Route 335, Sect. 2 West Pennsylvania Twp., Schuylkill Co., to H. R. Miller Co., Lancaster, $63,443. Grand total $183,716. Noted Dec. 3.

Pa., Pittsburgh—Buhl Foundation, Farmers Bank Bldg., rein.-con. paving 2,500 ft. Grandview Ave. adjoining Olympia Park, 18 ft., to McCrady Constr. Co., Investment Bldg. Est. $25,000.

Tex., Jasper—City, c/o A. L. Black, mayor, concrete paving 27,065 sq.yd., to Reed & Wheelock, Clay Center, Wan., $45,223. Est. $50,000. Noted Dec. 17.

Utah—State Rd. Comn., Salt Lake City, grading, surfacing 3.25 mi. hy. from Colorado River to and through Moab, 28 ft., to Page & Clybaugh, Grand Junction, Colo., $27,933.

Washington—S. J. Humes, dir. Hys., Olympic, grading, crushed stone surfacing 6.894 mi. State Rd. 15, in Snohomish Co., to L. Romano Eng. Corp., 309 Thompson Bldg., Seattle, $132,543. Noted Dec. 24.

Washington—S. J. Humes, dir. Hys., Olympia, grading, crushed stone surfacing 2.645 mi. Pacific Co., to Morrison-Knudsen Co., 1307 Old Natl. Bank Bldg., Spokane, $122,822. Noted Dec. 24.

Wisconsin — State Hy. and Unemployment Comns., Madison, Random Lake Grade Separation (approaches only), Sheboygan Co., to Froemming Bros., Inc., 1326 Humboldt Ave., Milwaukee, $10,119; Port Grade Separation, Ozaukee Co., to Luety Bros., Beloit, $14,965. Noted Jan. 7.

Wis., Milwaukee—Bd. P. Wks., grading, paving North Montreal St. and West Auer Ave., to Bodemann Constr. Co., 2805 North 55th St., $14,442 and $11,515 respectively—South 37th St. and West Mount Vernon Ave., to Gumz & Switalski, 2065 South 18th St., $5,264 and $3,982 respectively—grading, asphalt paving West State St., to White Constr. Co., 110 East Wisconsin Ave., $37,324. Grand total $72,528.

Wyoming—State Hy. Comn., Cheyenne, grading, surfacing 16.869 mi. Niobrara Co. and 10.496 mi. Crook Co., to T. J. Tobin Constr. Co., Casper, $58,181 and $26,834 respectively—15.797 mi. Weston Co., to Blanchard Bros., 1641 South Logan St. Denver Colo., $9,454. Grand total $94,440. Noted Jan. 5.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

Wash., Bellingham—State Hy. Dpt., Olympia, S. J. Humes, dir., 330 ft. girder bridge, consisting one 50 ft. and seven 40 ft. spans, 30 ft. roadway, two 5 ft. sidewalks, 12th St., also replacing Chuckanut Bridge with earth fill. $75,000.

Ont., New Toronto — Town and York Co. (Toronto), breakwater along Lake Ontario, concrete or timber cribs, rock fill construction. $50,000. H. C. Rose, 57 Adelaide St. E., Toronto, engr.

BIDS ASKED

Mississippi — Jan. 28, by State Hy. Comn., Tower Bldg., Jackson, 93,309 cu.yd. hydraulic settlement of fills by pressure jetting on 3 or more sections Jackson-Canton Rd., Federal Aid Project 79-B, Madison Co. C. M. Williamson, dir.

Mississippi—See "Streets and Roads."

Ont., St. Catharines — See "Contracts Awarded."

Ont., Toronto—See "Contracts Awarded."

CONTRACTS AWARDED

Ill., East St. Louis—Bd. Trustees East Side Levee & Sanitary Dist., 213 Metropolitan Bldg., furnishing, placing revetment on levee of Constr. Project 7, incl. 25,000 cu.yd. revetment in place, 2,000 cu.yd. excavating for footings and grading for levee, to H. H. Hall Constr. Co., Murphy Bldg., $58,800. Noted Dec. 10.

Ind., Marion—Grant Co., constructing Tippey Ditch, incl. 24,500 cu.yd. excav., to General Dredging Co., 3589 Taylor St., Ft. Wayne.

La., New Orleans—Bd. State Engineers, 207 New Orleans Court Bldg., D. C., Daniel, secy., cleaning Bayou Caren Crow, digging drainage canal from Bayou Grand Encore to Bayou Des Glaizes, total 40,000 cu.yd. excav., to McWilliams Dredging Co., Canal Bank Bldg.

New Jersey—Mosquito Extermination Comn. of Hudson Co., Bergen Ave., 50,000 ft. drainage ditches and replacing 150,000 ft. old drainage ditches in salt marsh meadows, to J. B. Monahan, 28 Clifton Pl., Jersey City. Est. $25,000. Noted Dec. 16.

Ont., St. Catharines — City Council, earth excav., grading, filling, earth removal in several sections, largely by day labor. $35,000. B. F. Lamson, City Hall, engr.

Ont., Toronto—City, constructing 3,000 ft. regatta course, incl. concrete breakwater, sea wall, filling and grading, promenades and sidewalks, bleachers, etc., in front Exhibition Park, day labor. R. C. Harris, City Hall, engr. Noted Dec. 17.

Ont., Toronto—Extending 800 ft. concrete Exhibition Park sea wall, day labor. $90,000. R. C. Harris, City Hall, engr. Noted Sept. 24.

Bond Elections

Coming Bond Elections

Sewers, Fire Dept. Equipment, etc.—Joplin, Mo., $192,500.

Sewage Disposal Plant—Elk City, Okla., Jan. 29, $25,000.

Harbor and Waterfront Impvts., and Street Lighting System — Lake Geneva, Wis., $100,000.

Electric Lighting System—University City, Mo., Feb. 2, R. Toensfeldt, c/o Wells Eng. Co., St. Louis, Engr. $500,000.

Park Improvements—Pine Bluff, Ark., Feb. 16, $35,000.

Park Improvements—Fullerton, Calif., Jan. 26, $60,000.

Bonds Defeated

Waterworks, incl. Distribution System — Deepwater, Mo., $39,000.

Sewers and Disposal Plant — Deepwater, Mo., $13,500.

Sewage Disposal Plant — Washington, Mo., $30,000.

FEDERAL GOVERNMENT

PROPOSED WORK

Ark., Sheridan—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., sketches concrete, brick, stone, post office. $100,000.

Calif., San Diego—CRANES—Spec. 6770—Yards & Docks, Navy Dpt., Wash., D. C., two 25 ton floating revolving boom cranes mounted on steel pontoons and operated by Deisel-electric power, one delivered to Navy Dpt., Mare Island.

Calif., San Diego—DREDGING—U. S. Eng., Los Angeles, 569,000 cu.yd. from south side Bay Channel and Chula Vista Channel, San Diego Harbor.

Conn., New London — QUARTERS — Treas. Dpt. at office Sup. Archt., Wash., D. C., rejected bids Dec. 14, officers quarters at Coast Guard Academy. Will readvertise Noted Nov. 26.

Fla., Miami — QUARANTINE STATION — Treas. Dpt. at office Sup. Archt., Wash., D. C., rejected bids Dec. 10, U. S. Quarantine Station Building. Will readvertise. Noted Nov. 19.

Ind., Terre Haute—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., soon takes bids rein.-con., brick, limestone, marble and ornamental iron U. S. Post Office, 7th and Cherry Sts. $600,000. Miller & Yeager, 819 Ohio St., archts. Noted Aug. 27.

Mass., Norwood—POST OFFICE—Treas. Dpt. at office Sup. Archt., plans by W. G. Upham, 700 Washington St., brick, stone, Centre and Guild Sts. $130,000. Noted Aug. 20.

Mich., Detroit—WAREHOUSE, etc.—U. S. Eng., 2 story, masonry warehouse, wood and metal paint and oil storage building, 1 temporary wooden building.

Mich., Grand Haven—SUPERSTRUCTURE—U. S. Eng., Milwaukee, Wis., 606 lin.ft. concrete superstructure, incl. 4,860 ft. pipe; 17,700 lb. tierods, 3,100 lb. bolts, 540 cu.yd. concrete superstructure.

Mo., St. Louis—FOUNDATION—Treas. Dpt. at office Sup. Archt., Wash., D. C., indefinitely postponed taking bids found. for federal building, 12th and Market Sts. Plans of building being modified. Maurin, Russell & Crowell, Chemical Bldg., archts. Noted Nov. 12.

Mo., St. Louis—POST OFFICE—Treas. Dpt. at office Sup. Archt., rein.-con., brick, stone annex, Market, Walnut, 18th and Moore Sts. $2,500,000. Noted May 7.

New Jersey — DREDGING — U. S. Eng., Wilmington, Del., 243,800 cu.yd. Big Timber Creek.

N. J., Englewood — POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., revised sketches by L. C. Licht, 4 Dean St., 2 story, basement, brick, steel, Engle St. $182,000. Noted Nov. 26.

O., Hillsboro—POST OFFICE—Treas. Dpt. at office Sup. Archt., U. S. Post Office. $100,000.

O., Delphos—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by Langon, Hohley & Graham, Security Bldg., Toledo, U. S. Post Office.

O., Oberlin—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by A. A. Hahn, 430 Close Bldg., Toledo, U. S. Post Office.

Okla., Duncan—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by Sorey & Vahlberg, Braniff Bldg., Oklahoma City, U. S. Post Office. Noted Apr. 16.

Okla., Stillwater—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by R. W. Shaw, Bass Bldg., Enid, U. S. Post Office. Noted Feb. 5.

Ore., Portland—ADMINISTRATION BUILDING—Feb. 15, by Vet. Bu., Arlington Bldg., administration building, underground passage at U. S. Veterans' Hospital.

Pa., Bloomsburg—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by Lowrie & Green, 3rd and Foster Sts., Harrisburg, U. S. Post Office.

Pa., Lansdale—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Site selected.

Pa., Milton—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Site selected.

Pa., Pittsburgh—DREDGE—U. S. Eng., one 2½ yd. steel hull dipper dredge.

Texas — FLOOD CONTROL — U. S. Eng., Galveston, appropriated $225,000 funds for survey work and partial cost for flood control plan. Government proposes to assist local interests in project and will start surveys at once.

Texas—REDREDGING—U. S. Eng., Galveston, 148,000 cu.yd. from Double Bayou Channel and Anahnac Channel.

Tex., Big Springs—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash, D. C., plans by H. M. Greene, La Roche & Dahl, Insurance Bldg., Dallas, new U. S. Post Office.

Tex., Fort Sam Houston—PAVING—Con. Q. M., soon takes bids asphalt on concrete or rock paving 50,000 sq.ft. around buildings. $65,000.

Tex., Pampa—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by Dewitt & Washburn, Kirby Bldg., Dallas, rein.-con., stone post office. $180,000.

Vt., Norton Mills—INSPECTION STATION—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by J. A. Wetmore, c/o Owner, inspection station. $56,000. Noted Aug. 27.

Vt., Richford—STATION—Treas. Dpt. at office Sup. Archt., Wash., D. C., border station. $59,000.

Canal Zone—HANGARS—Con. Q. M., rejected bids Nov. 24, erecting and completing 3 air corps barracks, warehouse and machine shop at Albrook Field. Noted Sept. 24.

BIDS ASKED

Ala., Mobile—ELEVATOR—Jan. 29, by Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator at U. S. Marine Hospital.

Ala., Mobile—HOSPITAL—Jan. 29, by Treas. Dpt. at office Sup. Archt., Wash., D. C., 4 story marine hospital addition. $415,000. Warren, Knight & Davis, Protective Life Bldg., Birmingham and Chandler. P. Young, Merchants Natl. Bldg., Mobile, archts. Noted Dec. 24.

Calif., San Diego — CRANES — Feb. 3, by Yards & Docks, Navy Dpt., Wash., D. C., two 25 ton floating revolving boom cranes at destroyer base, one to Navy Yard, Mare Island. Noted Jan. 14.

Calif., Sunnyvale — ADMINISTRATION BUILDING—Spec. 6708—Feb. 17, by Yards & Docks, Navy Dpt., Wash., D. C., administration building, dispensary and barracks at Naval Air Station. Noted Jan. 7.

Calif., Sunnyvale — HELIUM and BOILER PLANTS, etc.—Spec. 6706—Feb. 3, by Yards & Docks, Navy Dpt., Wash., D. C., helium and boiler plant building, medium pressure, helium storage, concrete chimney, tunnel, inverted syphon and gas holder found., at Naval Air Station. Noted Jan. 14.

Calif., Sunnyvale — WATER DISTRIBUTING SYSTEM—Feb. 3, by Yards & Docks, Navy Dpt., Wash., D. C., water distributing and sewerage systems at Naval Air Station.

Calif., Visalia—POST OFFICE—Treas. Dpt. at office Sup. Archt., plans by W. D. Coates, Jr., Rowell Bldg., Fresno, U. S. Post Office. Noted Nov. 19.

D. C., Wash.—IRON, etc.—Feb. 3, by General Purchasing Officer Panama Canal, iron, steel, copper, bronze, aluminum, zinc, lead, wire rope, wire portable cord, manila rope, electric motors, ammeters, etc., Schedule 2720.

Ia., Dubuque—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids after Feb. 1, general contract 3 and 4 story post office and federal court building, Locust and Bluff Sts. between 5th and 6th Sts. $500,000. Proudfoot, Rawson & Souers & Thomas, 810 Hubbell Bldg., Des Moines, and H. A. Kennison, 1107 Federal Bank Bldg., archts. J. A. Wetmore, c/o owner, acting superv. archt. $500,000. Noted July 2.

La., Shreveport—FIRE STATION, etc.—Jan. 28, at office Con. Q. M., fire station and guard house, at Barksdale Field; adv. E. N.-R. Jan. 21. Noted Nov. 12.

La., Shreveport—SEWAGE PUMPING PLANT—Feb. 8, at office Con. Q. M., Barksdale Field, sewage pumping plant, incl. sewage sump, pump pit, motors, shelter and appurtenances, at Barksdale Field; adv. E. N.-R. Jan. 21.

Md., Perry Point—INCINERATOR—Feb. 2, by Vet. Bu., Arlington Bldg., Wash., D. C., 1 incinerator building and equipment, etc., at U. S. Veterans' Administration Hospital.

Mo., Springfield — STAFF RESIDENCES — Feb. 10, by Treas. Dpt. at office Sup. Archt.,

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Federal Government (Continued)

Wash., D. C., staff residences for U. S. Hospital for Defective Delinquents, Dpt. Justice; adv. E. N.-R. Jan. 21.

Mass., Bedford—COAL BUNKER, etc.—Feb. 9, by Vet. Bu., Arlington Bldg., Wash., D. C., coal bunker and stoker equipment at U. S. Veterans' Hospital.

Mass., Middleboro—POST OFFICE—Feb. 8, by Treas. Dpt., at office Sup. Archt., Wash., D. C., U. S. Post Office; adv. E. N.-R. Jan. 21. Noted June 25.

Mo., Jefferson City—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about Feb. 15, general contract 3 story, basement, 83 x 108 ft., rein.con., brick, stone post office. $450,000. Klipstein & Rathman, 318 North 8th St., St. Louis, archt. E. Swartwout, 10 East 40th St., New York, assoc. archt. Noted Aug. 19.

Mo., St. Louis—DREDGE—Feb. 5, by U. S. Eng., Wash., D. C., one or two 20 in. pipe line dredge for delivery.

Neb., Lincoln—DEEP WELL—Jan. 26, by Vet. Bu., Arlington Bldg., deep well at U. S. Veterans' Hospital.

N. Y., Binghamton—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about May 1, general contract 3 story, 150 x 180 ft., brick, steel, rein.-con., Wall St. $565.000. Conrad & Cummings, Phelps Bldg., archts. Noted June 18.

N. Y., Brooklyn—LUMBER—Jan. 29, by Signal Supply Officer, Army Base, 58th St. and 1st Ave., lumber.

N. Y., Potsdam—POST OFFICE—Feb. 24, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted Oct. 29.

N. Y., Stapleton (mail Staten Island)—HOSPITAL—Treas. Dpt. at office Sup. Archt., Wash., D C., bids about March, hospital group, incl. main building, nurses' home, 2 attendant's buildings, office, power house and laundry for U. S. Marine Hospital, Bay St., Tompkins and Vanderbilt Aves. $2,500.000. K. M. Murchison & W. H. Gompert, 101 Park Ave., archts. Tachan & Vought, 102 East 30th St., New York, assoc. archts. Noted June 18.

O., Marietta—BOILERS—Jan. 26, by U. S. Eng., Huntington, W. Va., one 200 hp. or two 100 hp. Scotch marine boilers for dredge Adams, f.o.b. cars or free alongside Govt. dock at U. S. Repair Station, here.

O., Marietta—LOCK GATE LEAVES—Jan. 25, by U. S. Eng., Huntington, W. Va., spare lock gate leaves to U. S. Repair Station.

S. C., Charleston—TANK and TOWER—Feb. 9, by Treas. Dpt. at office Sup. Archt., Wash., D. C., tank and tower at Quarantine Station.

Tex., Legion—GARAGE—Feb. 16, by Vet. Bu., Arlington Bldg., Wash., D. C., garage, at U. S. Veterans' Hospital. Noted May 28.

Va., Langley Field—GARAGE—Feb. 16, at office Con. Q. M., garage; adv. E. N.-R. Jan. 21.

Va., Langley Field—QUARTERS—Feb. 4, by Con. Q. M. 15 type A and one type B field officers' quarters. $250,000.

Miss., Vicksburg—WIRE ROPE—Jan. 19, by U. S. Eng., P. O. Box 667, wire rope.

CONTRACTS AWARDED

Ala., Montgomery—LIGHTING SYSTEM—Con. Q. M., Maxwell field, night lighting system at Maxwell Field, to Mill & Mine Constr. Co., Martin Bldg., Birmingham. $4,200. Noted Nov. 26.

Ala., Tuskegee—HOSPITAL—Vet. Bu., Arlington Bldg., Wash., D. C., hospital at U. S. Veterans' Hospital, to Pittman Constr. Co., 205 Roades Bldg., Atlanta, Ga., $263,400. Noted Nov. 5.

Arkansas—STEEL PILING—U. S. Eng., 1006 McCall Bldg., Memphis, Tenn., 60,000 sq.ft. steel piling for flood wall at Supply & Repair Depot, opposite Memphis Tenn., to Jones & McLaughlin Steel Corp., Ross St., Pittsburgh, Pa., $27,720. Noted Dec. 16.

California—ROAD—C. H. Sweetser, dist. engr. Pub. Rds., San Francisco, improving Wawona Rd., Yosemite Natl. Park, to Triangle Rock & Gravel Co., San Bernardino. $39,390. Noted Oct. 29.

Ga., Savannah—DREDGING—U. S. Eng., 48,600-55,800 cu.yd. in Baileys Cut, Satilla River and Dover Creek, to Parkhill Dredging Co., Florida Theatre Co., Jacksonville, Fla., Item 1 at $0.114, Item 2 at $0.119 per cu.yd.

Illinois—LEVEE—U. S. Eng., 428 Custom House, St. Louis, Mo., placing 128,000 cu.yd. earthwork by hydraulic methods of construction in rebuilding, enlarging levee in Lost Creek Drainage and Levee Dist., Cass Co., to G. C. Bolz Dredging Co., 412 North Levee, St. Louis, Mo., $19,200. Noted Nov. 19.

Ill., Chicago—MITER SILLS—U. S. Eng., 333 North Michigan Ave., altering miter sills and emergency dam masonry at Lockport, Dresden Island, Marseilles and Starved Rock, to Powers-Thompson Constr. Co., Joliet, $20,781. Noted Nov. 5.

Ia., Davenport — DAM — U. S. Eng., Rock Island, Ill., roller dam, seawall and intercepting sewer, to S. A. Healy, 6561 East Seven Mile Rd., Detroit, Mich., $3,321,973. Noted Oct. 29.

Ia., Knoxville—WATER SOFTENING PLANT—Vet. Bu., Arlington Bldg., Wash., D. C., water softening plant at U. S. Veterans' Hospital, to Grazer Trank Mfg. Corp., East Chicago, Ind., $13,194. Noted Nov. 19.

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Ky., Harrodsburg—MONUMENT—Con. Q. M., monument, Pioneer Park, to A. LePoidevin & Co., 286 5th Ave., New York. Est. $100,000. Contractor soon takes sub-bids. Noted Jan. 7.

Ky., Pikesville—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., 2 story, basement, 54 x 56 ft. and 1 story, 20 x 30 ft. U. S. Post Office, to A. Blair, Montgomery, Ala., $42,800. Noted Nov. 5.

La., Shreveport—DREDGING, etc.—Con. Q. M., Barksdale Field, dredging, improving portion Cooper's Bayou, to C. C. Shuptrine, Oakdale, $2,970; installing gypsum ceilings in four hangars, operations building, warehouse and shop building, to J. B. Eurell Co., 225 South 15th St., Phila., Pa., $38,700; installing water system, to W. H. O'Toole Constr. Co., Monroe, $4,500. Grand total $46,170. Rejected bids dredging 7,200 ft. canal from Cooper's Bayou to Macks Bayou.

Mass., Bedford—HOSPITAL—Vet. Bu., Arlington Bldg., Wash., D. C., 2 story, basement, 35 x 90 ft. apartment, 40 x 190 ft. infirmary, two 32 x 45 ft. and one 35 x 40 ft. ells, brick, stone, for U. S. Veterans' Hospital, to Adams Constr. Co., Woodward Bldg., Wash., D. C., $190,000. Noted Nov. 19.

Mass., Boston—PIPE—Bureau Supplies & Accounts, Wash., D. C., Class 1038 and Class 1640 copper pipe, Navy Yard, to Bridgeport Brass Co., 774 East Main St., Bridgeport, Conn., $5,315 and $603 respectively. Noted Dec. 9.

Mass., Lynn—DREDGING—G. H. Breymann Bros., (contractors), 17 Battery Pl., New York, sublet contract dredging 1,925,000 cu.yd. in Lynn Harbor to Standard Dredging Co., 233 Bway., New York, for U. S. Eng., Boston. Noted July 16, under "Contracts Awarded."

Minn., Minneapolis—POWER HOUSE—U. S. Eng., St. Paul, general contract brick power house, at Twin City Lock and Dam, to E. J. Dunnigan, 1014 Builders Exch. Bldg., St. Paul, $9,998. Noted Dec. 10.

Mont., Butte—ELEVATOR—Treas. Dpt. at office Sup. Archt., Wash., D. C., freight elevator and remodeling passenger elevator at U. S. Post Office and Court House, to Otis Elevator Co., 810 18th St. N. W., $7,472. Noted Dec. 10.

N. Y., Brooklyn—TURBO-ALTERNATOR—Spec. 6680—Yards & Docks, Navy Dpt., Wash., D. C., turbo-alternator, condenser, ejector pump, to A. D. Granger Co., 15 Park Row, $22,943 (120 days). Noted Dec. 11.

North Carolina—DREDGING—U. S. Eng., Wilmington, 88,700 cu.yd. soft material and 67,680 cu.yd. rock in Intracoastal Waterway from Beaufort to Cape Fear River, to Lukens Dredging & Constr. Co., Snow Bldg., Baltimore, Md., at $0.126 and $0.444 per cu.yd. respectively. Noted Nov. 19.

N. C., Wilmington—BUILDING—U. S. Eng., Wilmington, steel building, to Virginia Bridge & Iron Co., Roanoke, Va., $2,892. Noted Dec. 17.

O., Youngstown—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to A. W. Kutsche Co., 2111 Woodward Ave., Detroit, Mich., $361,600; elevators, to Otis Elevator Co., 810 18th St. N. W., Wash., D. C., $14,762. Noted Dec. 17.

Okla., Okmulgee—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., 3 story, basement, 90 x 147 ft. post office, 4th St., to A. Blair, Montgomery, Ala., $228,238. Noted Nov. 26.

Ore., Portland — DREDGING — U. S. Eng., material from channels in Willamette River, to Tacoma Dredging Co., 1113½ A St., Tacoma, at $0.22. Noted Nov. 27 Daily.

Tex., Fort Worth—DEEP WELL—Treas. Dpt. at office Sup. Archt., Wash., D. C., 1,100 ft. deep well, pump, storage tank, air compressor, piping at post office, to Q. D. Lewis, 2101 Market St., $20,410.

Va., Hampton — ADMINISTRATION — Vet. Bu., Arlington Bldg., Wash., D. C., administration home barrack building at U. S. Veteran's Hospital, to Virginia Eng. Co., Newport News, $16,940. Noted Dec. 24.

Wash., Walla Walla—SUBSISTENCE BUILDING—Vet. Bu., Arlington Bldg., Wash., D. C., subsistence building, to A. F. Mowatt, 518 McDowall Bldg., Seattle, $113,043. Noted Dec. 17.

Wis., Wisconsin Rapids — POST OFFICE — Treas. Dpt., at office Sup. Archt., Wash., D. C., post office, to Immel Constr. Co., Fond du Lac, $77,843. Noted Dec. 10.

Ont., Ottawa—OFFICE—George A. Fuller Co., contractors, 597 Madison Ave., New York, structural steel for office building, to Canadian Bridge Co. Ltd., Walker Rd., Walkerville; plumbing, heating and ventilating, to Bennett & Wright, 72 Queen St. E., Toronto; cut stone, to Shawnee Stone Co., Bloomington, Ind., for Foreign Service Buildings, State Dpt., Wash., D. C. Noted Nov. 12, under "Contracts Awarded."

RAILWAYS

CONTRACTS AWARDED

New York—New York and Richmond Gas Co., 69 Bay St., Stapleton, elevated railroad siding, trestle, coal chute, and crib wall, at Willow Ave., Clifton, to Fanning-Schuett Eng. Co., 4325-39 North 3rd St., Phila., Pa.

SUBWAYS AND TUNNELS

PROPOSED WORK

New York—Bd. Transportation, J. H. Delan chn., 250 Hudson St., New York, prelimin plans completed, no working drawings prepa 3.2 track mi. subway on Newport Ave. L from Beach 116th to Beach 149th Sts., Que Co. $2,400,000.

New York—Bd. Transportation, J. H. Delan chn., 250 Hudson St., New York, prelimin plans completed, no working drawings prepa 6.68 mi. Garfield Ave.-65th Pl.-Pond Rd. subw line from Bway. to Central Ave. $10,100,000

Ont., Weston—See "Grade Crossings."

BIDS ASKED

N. Y., New York—Jan. 29, by Bd. Tra portation, J. H. Delaney, chn., 250 Hudson S altering railroad structure along and under 4 Ave. to permit widening roadway of 23rd S agreement "K.O."

GRADE CROSSINGS

PROPOSED WORK

New York — Long Island R.R. Co., A. Watson, ch. engr., Pennsylvania Sta., Ne York, eliminating grade crossings by carryin tracks over Beach 59th, Beach 62nd, Beach 67th, Beach 69th, Beach 71, Beach 73, Beach 77, Beach 79th and Beach 80th Sts., Arverne Beach 84th, Beach 85th, Beach 86th, Beach 87th, Beach 90th, Beach 91st and Beach 92n Sts., Hammels; Seaside Ave., Beach 95th, Beach 96th, Beach 98th, Beach 101st, Beach 102nd, Beach 104th, Beach 105th, Beach 106th an Beach 109th Sts., Rockaway Park. $6,520,000 Work ordered by Transit Comn.

N. Y., Brooklyn—Long Island R.R. Co., A C. Watson, ch. engr., Pennsylvania Sta., New York, plans extending new street over railroad tracks at Kings Highway. $100,000. General plans submitted to Transit Comn. and returned for correction.

N. Y., Brooklyn — Long Island R.R. Co., A. C. Watson, ch. engr., Pennsylvania Sta., New York, eliminating grade crossing by carrying Rockaway Parkway over tracks. $200,000.

N. Y., Brooklyn—New York Rapid Transit Co. (B. M. T. lines), 385 Flatbush Ave., grade crossing to carry DeWitt Ave. and Linden Blvd. over tracks. $300,000. General plans approved and detailed plans waiting approval.

N. Y., Brooklyn—New York Rapid Transit Co. (B.M.T. Lines), 385 Flatbush Ave., eliminating grade crossing at Avenue L, by extending street over railroad. To exceed $25,000. Await outcome pending litigation.

N. Y., Edgemere—Long Island R.R. Co., A. C. Watson, ch. engr., Pennsylvania Sta., New York, general plans approved eliminating grade crossings by carrying tracks over Beach 41st, Beach 44th and Arverne Blvd. $2,009,000.

N. Y., New York—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., eliminating grade separation at West 171st St. $250,000.

Okla., Tulsa—See "Bridges."

Ont., Weston—Town, Canadian National Rys., T. T. Irving, ch. engr. (central region), Toronto, and Canadian Pacific Ry. Co., J. M. R. Fairbairn, ch. engr., Montreal, Que., concrete, steel subway under tracks at Eagle St., $50,000-$100,000. F. Marshall, town engr.

BIDS ASKED

N. Y., Amherst—See "Contracts Awarded."

CONTRACTS AWARDED

N. Y., Amherst—Lehigh Valley R.R. Co., G. T. Hand, ch. engr., 466 Lexington Ave., New York, eliminating Sheridan Dr. Grade Crossing, day labor. Est. $69,000. Pub. Serv. Comn. granted permit.

N. Y. Brooklyn—New York Rapid Transit Co. (B. M. T. Lines) 385 Flatbush Ave., reconstructing bridges at St. John's Pl., Sterling and Montgomery Sts., to J. Leopold & Co., Inc., 60 East 42nd St., New York, $23,216.

N. Y., Brooklyn — New York Rapid Transit Co. (B. M. T. Lines), 385 Flatbush Ave., eliminating grade crossing at Linden Blvd. and DeWitt Ave., to Edwards & Flood, Inc., 1 Hanson Pl., $319,618.

Ont., Oakville—Town and Canadian National Rys., T. T. Irving, ch. engr. (central region), New Union Station, Toronto, concrete, steel subway under tracks on Seventh Line, to King Paving Co. Ltd., Oakville. Est. $50,000 up. Noted Dec. 10.

DAMS

PROPOSED WORK

Okla., Ponca City—Indiana Hills Resort Co., C. McDonald, pres., stone and rip rap and earth dam 1,149 ft. long, 48 ft. high, 300,000 cu.yd. excav. $20,000. Fish hatching ponds to be built later. J. W. Atherton, Ponca City, engr.

PIERS AND WHARVES

PROPOSED WORK

La., Southport—WHARF—United States Refining Co. loading wharf on Mississippi River. F. W. Leahy Eng. Co., New Orleans, engr.

Piers and Wharves (Continued)

CONTRACTS AWARDED

N. J., Hoboken—PIER—Hoboken Mfg. R.R Co., foot 5th St., altering and improving pier, incl. building new platform, sheds, and walk from freight house to pier, foot 6th St., to General Constr. & Eng. Corp., 40 Rector St., New York, est. $25,000.

AIRPORTS

BIDS ASKED

Mo., Bridgeton—Feb. 9 (extended date), by Bd. P. Serv., City Hall, 1 and 2 story, basement, 37 to 58 ft. wide, 198 ft. long, brick, steel airport terminal building, Lambert-St. Louis Field. $150,000. A. Osburg, 301 City Hall, archt. L. R. Bowne, city engr. Noted Jan. 7.

GRAIN ELEVATORS

CONTRACTS AWARDED

Ont., Windsor—GRAIN ELEVATOR—Windsor Elevator Co., C. Vannatter, pres., 208 Dominion Bank Bldg., Toronto, 2,000,000 bu. grain elevator, two units 480 each ft. long, 65 x 200 ft. warehouse and dock, to Fegles Constr. Co., 201 Grain Exch. Bldg., Fort William. Est. **$1,250,000.**

POWER AND LIGHTING

PROPOSED WORK

Mo., Martinsburg—Missouri Power & Light Co., 740 Bd. of Trade Bldg., granted franchise by city for natural gas distribution system to connect with Texas Panhandle Company's lines across Audrain and Montgomery Counties. Private plans.

Mo., Wellsville—Missouri Power & Light Co., Kansas City, preliminary plans distribution system for either natural gas or artificial gas here. Private plans.

New York—Long Island Lighting Co., Old Country Rd., Mineola, extending gas distribution system in towns between Cold Spring and Laurel Harbor, Nassau-Suffolk Co. Line, $25,000. Proceedings before P. Serv. Comn. to compel above extension of line.

New York—New York Central Electric & Gas Corp., Hornell, applied for permission to extend gas and electric distribution lines in Dryden, Tompkins Co. and gas distribution line in Rathbone, Steuben Co.

New York—Peoples Gas & Electric Co., 71 East 1st St., Oswego, Syracuse Lighting Co., 421 South Warren St., Syracuse, and Fulton Fuel & Light Co., 70 South 1st St., Fulton, transmission pipe line from Syracuse through Baldwinsville, Fulton and other municipalities to Oswego, incl. territory now served by above companies which are subsidiaries of Niagara, Hudson Power Corp., for furnishing gas to Scriba, Minetto, Schroeppel, Phoenix, Granby, Volney, Oswego Co., and Van Buren and Lysander, Onondaga Co.

New York—Rockland Gas Co., Middletown, requests permission to extend gas distribution system in Rockland Co.

New York—Syracuse Lighting Co., 421 South Warren St., Syracuse, plans approved by Pub. Serv. Comn., gas distributing system in towns of Schroeppel and Lesander.

N. Y., Millport—Consumers Natural Gas Co., Elmira, gas distribution system, Chemung Co.

N. Y., Velney—Fulton Fuel & Light Co., 70 South 1st St., New York, granted permission by Pub. Serv. Comn. to construct distribution system, here, Oswego Co.

Tex., San Antonio—San Antonio Pub. Serv. Co., 201 North St. Marys St., expending $600,000 during 1932, improvements to general system, incl. extending gas lines, underground conduits, transformers. Private plans.

BIDS ASKED

La., Morgan City—See "Waterworks."

N. Y., Ogdensburg—Feb. 10, by Dpt. Mental Hygiene, State Office Bldg., Albany, electric work, rewiring nurses' home, farm cottage and garden cottage, St. Lawrence State Hospital; adv. E. N.-R. Jan. 21.

N. Y., Shelby—See "Contracts Awarded."

CONTRACTS AWARDED

New York—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, installing station and tunnel lighting equipment in Manhattan, Queens and Brooklyn Boros, to L. I. Waldman & Co., 241 East 36th St., New York, $129,900. Noted Dec. 10.

N. Y., Shelby—New York State Gas & Electric Co., 22 Central Ave., Ithaca, granted permission by P. Serv. Comn. to extend distribution system, here, by day labor.

PARKS AND SPORTS

PROPOSED WORK

Colo., Pueblo—Chester Johnson & Associates, 1038 East Evans Ave., combination swimming pool, dance hall, roller skating rink and theatre. Architect not appointed.

Connecticut — Shippan Beach Club, c/o S. Constable, archt., 100 Strawberry Hill Rd., Stamford, or c/o Pierre & Willis, 41 East 42nd St., New York, beach and club development, Shippan Point, Long Island Sound. To exceed $50,000.

Conn., New Britain—City, Bd. Park Comrs. concrete, swimming pool. $25,000.

Ill., Calumet City—Calumet Memorial Park Bd., M. Finneran, secy., Calumet City State Bank Bldg., 558 Ingraham Ave., plans by H. F. Bech, 664 North Michigan Blvd., Chicago, Ill., field house addition. **$100,000.**

Ill., Chicago—South Park Comrs., E. J. Kelly, pres., 57th St. and Cottage Grove Ave., bids in July, 2 story field house, incl. gymnasium, locker rooms, 83rd St. and Loomis Sts., in Foster Park, **$450,000; also bids in summer field house, for 7th Ward, L. White & O. H. Plumb,** 57th St. and Cottage Grove Ave., engrs., for latter project.

Ill., Chicago — South Park Comrs., E. J. Kelly, pres., 57th St. and Cottage Grove Ave., plans by A. Olschuler, 28 East Jackson Blvd. and takes bids about July field house in Marquette Park. $375,000.

Ill., Chicago—South Park Comrs., 57th St. and Cottage Grove Ave., 5,000 seating capacity open air forum, consisting 250 ft. diam. rein.-con. semi-circular platform surrounded by modified Doric colonnade in Washington Park.

Ill., Niles Center—Niles Center Park Dist., A. C. Galitz, pres., 5200 Brown Ave., 200 x 250 ft. oval shaped concrete swimming pool, 60 x 95 ft. brick, stone bath house. $100,000. **Maturity in spring.** Houlihan & Marks, archts., and Central Eng. Co., engrs., both 54 West Randolph St., Chicago. Consoer, Older & Quinlan, 205 West Wacker Dr., Chicago, consult. engrs. Park Bd.

Me., Ellsworth—Fleming Bros., Bangor, plans by V. Hodgins, 39 Hammond St., Bangor, 1 story, brick, timber athletic recreation unit. $40,000.

Mass., Cambridge—Harvard University, A. L. Lowell, pres., hockey rink. $25,000 or more. Private plans.

Mass., Clinton—Commonwealth of Massachusetts, Metropolitan Dist. Comn., 20 Somerset St., Boston, state park, comfort station, at Wachusetts Reservoir. To exceed $25,000.

N. J., Bayonne—Bd. City Comrs., City Hall, concrete stadium, athletic field, concrete retaining walls, fences at city park. $50,000. W. Clarkson, city engr.

N. J., Newark — Bd. Educ., R. D. Argue, secy., City Hall, rejected bids Nov. 19, playgrounds at Ivy St. and at Pershine Ave. Schools. $50,000. Private plans.

Okla., Bartlesville—H. V. Foster, final plans swimming pool. $35,000. E. B. Delk, Meyer Blvd. and Ward Parkway, Kansas City, Mo., archt. and engr.

BIDS ASKED

Mass., Boston—Jan. 26, by Park Dpt., 33 Beacon St., 1 story, brick, concrete field house, Dunbar Ave., Playground, Dorchester. $25,000. Noted Dec. 24.

CONTRACTS AWARDED

Ill., Bellewood—Bellewood Park Bd., A. Lang, pres., Washington and Bellewood Aves., general contract swimming pool and community house, Washington and Eastern Aves., to J. Fink, 302 24th Ave., Belleville. Est. $50,000.

Mass., Boston—City, Park Dpt., 33 Beacon St., excavation and grading at J. J. Connolly Playground, to C. M. Callahan, Inc., 23 South Fairview St., Roslindale. Est. $25,000. Noted Dec. 31.

La., New Orleans—See "Clubs."

N. J., Newark—Bd. Educ., City Hall, general contract Madison Ave. School Playground, Madison Ave., to J. Richliano, 105 Clifton Ave.; plumbing, to R. B. Smith, 62 Ann St.; electrical work, to S. & S. Supply Co., 541 Clinton Ave. Est. $25,000.

Tenn., Nashville—City Council, 80 x 100 ft. concrete swimming pool in Shelby Park, to Bush Building Co., 8th Ave. N., $25,000.

HEATING AND VENTILATING

PROPOSED WORK

Pa., Pittsburgh — Stone & Webster, engrs., Union Trust Bldg., soon let contract plumbing, heating, electric wiring for Presbyterian Eye and Ear Hospital, part of Medical unit of University of Pittsburgh, 12 story, basement, 52 x 165 ft. with 42 x 130 ft. wing, Darragh St., for Presbyterian Eye and Ear Hospital, 350 Madison Ave., New York. Noted Nov. 19 under "Hospitals."

CONTRACTS AWARDED

Md., Garrett Park—Georgetown Preparatory School, R. S. Lloyd, supervisor, heating for 1 story, basement, brick, stone, concrete chapel, to D. D. Condon Co., 1430 Irving St., N. W., Wash., D. C.; plumbing, to Maurice Colbert, 1908 M St., N. W., Wash., D. C.; electrical work, to Cunningham Electric Co., Bond Bldg., Wash., D. C. Noted Oct. 15, under "Schools."

Mass., Winchester — Immaculate Conception Church, 928 Main St., heating and plumbing in church and chapel, Sheridan Sq., to J. W. Greene Co., 14 Albion St., Wakefield; electrical work, to C. J. Butler, 269 Lowell St., Wakefield. Est. $25,000. Noted Dec. 31, under "Churches."

Ont., Hamilton—City, plumbing and heating in connection with new waterworks filtration plant, to Adam Clark Ltd., 7 Main St. W., $38,500. Noted Aug. 6, under "Waterworks."

UNCLASSIFIED

PROPOSED WORK

Conn., Hartford—VETERAN'S WAY, etc.—City and State, Bd. Park Com., Hartford, plans by Delano & Aldrich, 126 East 38th St., New York, Burr Memorial to consist of Veteran's Way, Plaza and Memorial Monument. $1,500,000. City's share $740,000. Noted Mar. 26

Mass., Lynn—FIRE ALARM HEADQUARTERS—City, F. J. Manning, mayor, new brick, steel fire alarm headquarters. $50,000. Architect not appointed.

Neb., Crete — CAMPUS DEVELOPMENT — Doane College, campus development, incl. landscaping, lakes, small bridges, heating plant.

N. J., Weehawken — STEPS — Twp. Comn., Municipal Bldg., rejected bids Dec. 9, repairing Clifton Terrace steps from Boulevard East to Pershing Rd. $25,000. Project abandoned.

N. Y., New York—SUBWAY PLATFORMS—Interborough Rapid Transit Co., 165 Bway., making plans and studies to alter and extend express subway stations and to provide for loading simultaneously 2 express trains from single platforms. To exceed $20,000,000.

Tex., San Antonio — TELEPHONE EXTENSION—Southwestern Bell Telephone Co., 215 East Travis St., expending $500,000 during 1932, for improving system, incl. laying considerable underground cables, ground lines, new pole replacements, plant equipment, etc. Private plans.

BIDS ASKED

La., Morgan City — OIL STORAGE TANK, etc.—See "Waterworks."

Mass., Brookline — SERVICE STATION — Standard Oil Co. of New York, Park Sq. Bldg., Boston, taking bids 1 story, concrete service station, Harvard and Thorndike Sts. $25,000. Private plans.

Mo., Bagnell—FISH HATCHERY—See "Contracts Awarded."

N. Y., Auburn — REFRIGERATION EQUIPMENT, etc.—Feb. 16, by Comr. Dpt. Correction, State Office Bldg., Albany, refrigeration equipment, new mess hall, kitchen and bakery, Auburn Prison; adv. E. N.-R. Jan. 21.

N. Y., Brooklyn—SUBWAY PLATFORM—See "Contracts Awarded."

N. Y., Geneva—SANITARY WORK—Feb. 4, by Dpt. Educ., Education Bldg., Albany, sanitary work, additional sinks, connections, Horticultural Building, New York State Agricultural Experiment Station; adv. E. N.-R. Jan. 21.

N. Y., Middletown—ELEVATOR—Feb. 10, by Dpt. Mental Hygiene, State Office Bldg., Albany, electric elevator, Ashley Hall, Middletown State Homeopathic Hospital; adv. E. N.-R. Jan. 21.

N. Y., Napanoch—REFRIGERATION WORK—Feb. 16, by Dpt. Correction, State Officers Bldg., Albany, refrigeration work for storehouse, Institution Defective Delinquents; adv. E. N.-R. Jan. 21.

N. Y., New York—STATION FINISH—Jan. 29, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., constructing station finish for 205th St. Station of Rapid Transit R.R., Bronx Boro.

N. Y., West Haverstraw—REFRIGERATION WORK—Feb. 9, by Commissioner Dpt. Health, State Office Bldg., Albany, refrigeration work, dining room and kitchen buliding, New York State Reconstruction Home; adv. E. N.-R. Jan. 21.

R. I., Providence—ELEVATOR, etc.—Feb. 2, by Providence Co. Court House Comn., furnishing elevator and equipment for County Court House, Jackson, Robertson & Adams, Turks Head Bldg., archts. Noted July 9, under "Public Buildings, Contracts Awarded."

Tex., San Antonio—RADIO PLANT—Feb. 1, by City, c/o C. M. Chambers, mayor, short-wave radio plant with transmitter, receiving sets, appurtenances, etc., for Police Dpt. use. I. Ewig, city engr.

CONTRACTS AWARDED

Mo., Bagnell — FISH HATCHERY — Union Electric Light & Power Co., 12th and Locust Blvds., St. Louis, will build fish hatchery on Lake of the Ozarks 1 mi. south of U. S. Hy. 54, near here, day labor. $40,000.

N. Y., Brooklyn—SUBWAY PLATFORM—New York Rapid Transit Co. (B. M. T. lines), 385 Flatbush Ave., widening subway platform on Bway line at Marcy Ave., day labor. To exceed $25,000.

MATERIALS

PROPOSED WORK

PIPE — **Missouri** — See "Waterworks, under Contracts Awarded."

BIDS ASKED

LEAD COVERED CABLE—**Los Angeles, Calif.**—Jan. 26, by T. Oughton, purch. agt., Los Angeles Water Dpt., City Hall, lead covered cable, Spec. 2709, incl. 5,000 ft. 500,000 C.M. 3-conductor, 5,000 ft. 2/0 A.W.G. 3-conductor, 1,500 ft. 6 A.W.G. 4-conductor, 2,500 ft. A.W.G. 1-conductor, all foregoing 5,000 volt; 5,000 ft. 500,000 C.M. 1-conductor, 21,000 ft. 4/0 A.W.G. 1-conductor, 20,000 ft. 1/o A.W.G. 1-conductor, 20,000 ft. 6 A.W.G. 1-conductor, all foregoing

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Materials (Continued)

600 volt. To exceed $5,000. H. A. Van Norman, City Hall, engr.

CAST IRON PIPE—Santa Cruz, Calif.—S. A. Evans, city clk., taking bids 2,600 ft. c.i. pipe for water system extensions.

LUMBER, etc.—**Primghar, Ia.**—Jan. 28, at office Auditor O'Brien Co., 4 cars untreated lumber, 2 cars yellow pine piling, 1 car cypress piling, 3,600 lin.ft. culvert pipe. Address County Engineer or Auditor.

CULVERT PIPE—**Vinton, Ia.**—Jan. 27, at office Auditor Benton Co., 4,500 ft. 15 in., 2,000 ft. 18 in., 750 ft. 24 in., 165 ft. 30 in., 33 ft. 42 in. corrugated culvert pipe. Address County Engineer or Auditor.

LUMBER and PILING—**Vinton, Ia.**—Feb. 3, at office Auditor Benton Co., 1 car creosoted and 2 cars untreated lumber, 1 car creosoted and 1 car untreated piling. M. A. Hall, Vinton, co. engr.

PORTLAND CEMENT—**Minneapolis, Minn.**—Jan. 26, by F. S. Gram, city purch. agt., 150,000 bbl. portland cement and 3,000,000 gal. road oil for Paving Dpt.

SEWER PIPE—**Minneapolis, Minn.**—Jan. 27, by F. S. Gram, city purch. agt., vitr. clay tile sewer pipe for 1932 season.

SEWER PIPE—**Minneapolis, Minn.**—Jan. 28, by F. S. Gram, city purch. agt., Municipal Bldg., sewer pipe for 1932 season.

PIPE—**St. Paul, Minn.**—Jan. 26, by C. A. Carlson, city purch. agt., 43,400 lin.ft. c.i. pipe for Water Dpt. W. N. Carey, city engr.

GRANITE INLET, APRON STONES, etc.—**Providence, R. I.** — Jan. 25, by Bd. Contr. & Supply, City Hall, granite inlet, apron stones and cement to Dpt. P. Wks.

CONTRACTS AWARDED

CINDERS—**Boston, Mass.**—Park Dpt., cinders as specified, to V. N. Bellizia Cinder Co., 214 Mystic Ave., $7,500.

IRON CASTINGS—**Boston, Mass.**—City, Supply Dpt., 300,000 lb. pipe stock, iron castings, to E. L. Le Baron Fdry. Co., Brockton, $10,350; 300,000 lb. frames and covers, to Gibby Fdry. Co., 96 Condor St., East Boston, $6,120, for Dpt. P. Wks.

SAND, etc. — **Brooklyn, N. Y.** — H. Hesterberg, pres. Brooklyn Boro. Boro Hall, to B. Turecamo, New Cropsey Lane, 6,000 cu.yd. sand $4,704, 10,000 cu.yd. binder stone $16,800, 15,000 cu.yd. asphalt sand $11,760; to J. Meehan & Sons, 90 West St., New York, 4,000 net tons limestone $24,000; to Warner Quinlan Co., 2 Park Ave., New York, 600,000 gal. asphaltic cement, $23,640; to Empire Cinders, Inc., 26 Court St., 5,000 cu.yd. steam cinders $3,050; to J. A. McCarthy & Co., 479 Walton Ave., 5,000 bbl. portland cement, $9,680. Grand total $93,634. Noted Dec. 31.

BROKEN STONE—**Long Island City, N. Y.**—G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., to Washington Bulkley, Inc., 700 Kent Ave., New York, 30,000 cu.yd. broken stone, $68,100; to Empire Cinders Co., Freeman St., 30,000 cu.yd. steam ashes, $24,900; to Standard Oil Co., 26 Bway., New York, 600,000 gal. asphaltic cement $24,000, 1,000,000 gal. road oil $41,800, 700 000 gal. fuel oil $29,950; to C. Vanderbilt Jr. Co., 24 Elizabeth St., Port Richmond, 1,500 tons asphalt cement $19,260. Grand total $208,010. Noted Dec. 31.

EQUIPMENT

PROPOSED WORK

SIGNAL and TRAIN TRIPPING DEVICES—**Brooklyn, N. Y.**—New York Rapid Transit Co. (B.M.T. Lines), 385 Flatbush Ave., equipping local tracks with signal and train tripping devices on Sea Beach Line—59th St. to Coney Island Ave. To exceed $300,000. Will purchase equipment at intervals during year.

SIGNAL DEVICES—**Brooklyn, N. Y.**—New York Rapid Transit Co. (B.M.T. lines), 385 Flatbush Ave., plans purchasing and installing signal and train tripping devices on local tracks Lexington Ave. Line from Myrtle to Gates Aves. To exceed $300,000.

SIGNAL EQUIPMENT—**New York, N. Y.**—Interborough Rapid Transit Co., 165 Bway., automatic signal and train tripping devices on Webster Ave. Line extension. To exceed $100,000. **Maturity indefinite.** Work ordered by Transit Comn.

ROAD MACHINERY—**Wisconsin**—Funds appropriated for purchase road maintenance machinery, Dane Co. $10,000; Fond Du Lac Co., 3 large trucks, 1 large trailer $10,000; Florence Co. patrol graders $1,000; Forest Co. large truck $3,000; Iron Co. 6 motor graders $5,000; Jackson Co. motor graders $5,000; Lafayette Co. snow plows and other maintenance equipment; Lincoln Co. truck plow, large truck, small truck $10,000; Manitowoc Co. truck plow large truck, small truck, 3 motor graders, air compressor $38,000; Oneida Co. 2 trucks, snow plow, 4 large trucks, oil diestributor $5,000; Ozaukee Co. 2 trucks, oil distributor, motor grader, small truck $10,000; Price Co. $5,000; Racine Co. 2 heavy trucks, 6 light trucks, 2 snow plows $15,000; St. Croix Co. tractors, snow plows, no certain amount; Villas Co. 2 large trucks $2,000; Washington Co. 2 small trucks, various maintenance machinery $5,000.

BIDS ASKED

FIRE FIGHTING APPARATUS — **Glendale, Ariz.**—City Council, taking bids combination hose wagon and pumper, 750 gal. capacity equipped with resuscitator. $13,000.

TURBINE—**Rockford, Ill.**—Jan. 25, by Sanitary Dist. of Rockford, 401 East State St., 400 g.p.m. turbine deep well pumping equipment. $2,500. Pearce, Greeley & Hansen, 6 North Michigan Ave., Chicago, engrs.

GENERATING UNIT, SWITCHBOARD, etc.—**Morgan City, Ia.**—See "Waterworks."

MOTOR—**Cambridge, Mass.**—J. L. Gleason & Co., 207 Bent St., in market 25 hp. 550 volt, 3-phase motor, 900 or 1,200 r.p.m.

TRACTOR—**Red Lake Falls, Minn.**—Red Lake Co., G. Dupont, aud., in market tractor. R. W. Tlolefson, co. hy. engr.

TRUCK—**Winona, Minn.**—Feb. 1, by G. W. Hofmann, city recdr., one 3- ton truck.

BOILER TUBE, etc.—**Phila., Pa.**—Jan. 26, by C. E. Welsh, purch. agt. Pennsylvania R.R. Co., 15 North 32nd St., Contr. 3—1932, boiler tubes; Contr. 4—1932, steel sheets.

CONTRACTS AWARDED

TANKS—**Indianapolis, Ind.**—Gulf Refining Co., 1910 South State St., installing new tanks, day labor. $7,000.

PUMPING EQUIPMENT—**New York, N. Y.**—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., overhauling, installing pumping equipment for Routes 103, 107, 108 and 110, Manhattan, Brooklyn and Queens Boros. Agreement "LO." to B. T. and J. J. Mack, Inc., 160 Bway., $9,600. Noted Dec. 31.

WATER GATE VALVES, etc. — **Providence, R. I.**—Bd. Contr. & Supply, water gate valves, flush hydrants, hydrant boxes and covers as specified to R. D. Wood & Co., 400 Chestnut St., Phila., Pa., $27,771. Noted Dec. 17.

FOREIGN

China—Catholic Foreign Missions Society of America, Inc., Ossining, N. Y., plans Gerald MacDonald Memorial College Building, vicinity Stanley Bay, South China.

England, London—Chinese Purchasing Comn., London, taking bids supplying 35 track miles light rails, 16 lb. per yd. steel, ties, fasteners and 160 sets of switches.

New Zealand, Wellington—Feb. 11, by City Clerk, 1 electrically driven centrifugal pumping unit with fittings, accessories and spares.

New Zealand, Wellington—Feb. 23, by Secretary Pub. Wks., Supplies & Tenders Comn., four 1,000 kva. transformers complete with on load automatic tap changing equipment.

New Zealand, Wellington—May 3, by Secretary Pub. Wks., Supplies & Tenders Com., 110 kva. and 33 kva. outside switch gear and steel work.

Peru, Callao—Peruvian Steamship Co., 67 Wall St., New York, and Callao, has not awarded contract for dry dock. No such project contemplated. This corrects report in Jan. 7 E. N.-R. and in Jan. 15 Daily. Noted Jan. 7.

Union Socialist Soviet Republic—State Institute for City Planning Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, plans rebuilding cities of Stalingrad, Ivanova, Voznesensk, Sverdlosk, Novarossick, Kerch, Saratov, Samara, Balakhna, Perm and Novo-Sibirsk.

U. S. S. R., Nizhni Novgorod—Soviet Government, c/o Amtorg Trading Corp., 261 5th Ave., New York, recreation resort, incl. amusement park, hotels, theatres, sanatoria, libraries, boat and trolley facilities. $28,000,000. Preliminary work in progress.

Commercial Buildings

RESIDENTIAL

BIDS ASKED

Calif., Stockton—Couchot & Rosenwald, engrs., 527 Market St., San Francisco, taking bids 5 story, basement, steel, rein.-con., North El Dorado St., for F. S. Boggs, Stockton. $150,000.

N. J., Bayonne—See "Contracts Awarded."

N. J., Fort Lee—See "Contracts Awarded."

N. J., Jersey City—See "Contracts Awarded."

N. J., Union City—See "Contracts Awarded."

N. Y., New York—See "Contracts Awarded."

CONTRACTS AWARDED

Mass., Stockbridge—Owner, c/o R. N. Rice, archt., 33 West 42nd St., 3 and 4 story, 100 room, brick, steel hotel, to Mowatt Constr. Co., 222 East 39th St., New York. Est. $150,000. Contractor takes separate contract bids about Feb. 1. Noted Jan. 7.

N. J., Bayonne—M. and S. Meltzer, 79 West 50th St., 3 story, basement, brick, steel, plain found., 36th St., separate contracts. $150,000. Private plans.

N. J., Fort Lee—R. Mockler, 1604 John St., two 3 story, basement, brick, steel, Warwick and Anderson Aves., separate contracts, $150,000. E. L. Wood, Englewood Cliffs, archt.

N. J., Jersey City—Haller Bros., 3548 Hudson Blvd., 3 story, basement, brick, steel, 3687-9 Hudson Blvd., separate contracts. $150,000. L. Feinen, 3697 Hudson Blvd., archt.

N. J., Union City—Owner, c/o J. Setti, archt., 124 Paterson Plank Rd., 4 story, basement, brick, steel, separate contracts. $150,000.

N. Y., New York — Schwarzler Realty Co., 2436 Grand Concourse, 6 story, 23 x 173 ft. apartment, Tiebout Ave. and 182nd St., separate contracts. $350,000. S. G. Kessler, 125 West 45th St., archt.

CLUBS

PROPOSED WORK

La., New Orleans—Knights of Columbus, 8 Carondelet St., sketches by G. R. Bartling, I 802 Paul Brown Bldg., St. Louis, Mo., part and 8 story, basement lodge and hotel buildi

N. J., Highlands — F. J. Hall Associates, story, brick, steel club house, Cornwall $150,000. **Maturity indefinite.** Architect n appointed.

N. J., Pinehurst—Pinehurst Estates, M. Ma zolla, pres., Lake Shore, 2 story, baseme brick, steel club house, Lake Shore. $150,00 **Maturity soon.**

N. J., Weehawken—Weehawken Lodge 14 B.P.O.E., H. Bischoff, pres. Building Com., 2 6 St., sketches by W. Mahnken, 401 32nd S Union City, and F. J. Ricker, assoc. archt., 6 Hudson Ave., West New York, 2 story, basement, brick, steel addition, Boulevard E. a 6th St. $150,000.

BIDS ASKED

La., New Orleans—See "Contracts Awarde

N. J., Jersey City—A. Davis, archt., 1 Montgomery St., bids about Apr. 1, general co tract 2 story, basement, 50 x 100 ft., bric steel club house, Liberty and St. Pauls Ave for Polish American Democratic Club, H Sieminsky, chm. building com., 175 Pavonia Av $150,000. Noted Dec. 31.

O., Cleveland—C. W. Hopkinson, archt., Ro Bldg., bids about Feb. 1, 2 story, basement, 8 x 120 ft., stone, steel, concrete masonic templ Franklin Circle, for West Side Masonic Templ Building Co., J. Cox, pres., Midland Bank Bldg $200,000. Noted Oct. 1.

CONTRACTS AWARDED

La., New Orleans — G. R. Bartling, Inc., archts., 802 Paul Brown Bldg., St. Louis, Mo., general contract 7 story, 40 x 150 x 160 ft. rein.-con. fraternal and hotel building, incl. swimming pool, gymnasium, running track, for Knights of Columbus, 836 Carondelet St., to Keeler Constr. Co., St. Louis, Mo. Est. $450,000. Architects will receive sub-contract bids latter part of month from New Orleans firms only. Noted Jan. 14.

SCHOOLS

PROPOSED WORK

Ala., Montevallo—Alabama College plans by Warren-Knight & Davis, Protective Life Bldg., Birmingham, gymnasium. $175,000.

Conn., Hartford—Trinity College, 115 Vernon St., sketches by McKim, Mead & White, 101 Park Ave., New York, brick, stone, chemistry unit. $150,000 or more. **Maturity in fall or later.**

Conn., New Britain—City, School Dpt., J. M. Holloran, altering and constructing school addition, Stanley and Wells Sts. $150,000. Architect not appointed.

Ill., Chicago—City, L. E. Meyer, pres. Bd. Educ., revised plans by J. C. Christensen, 188 West Randolph St. and soon takes new bids Wilson Senior High School, 60th St. and 61st Pl. $3,000,000.

Ill., Evanston—Northwestern University, W. A. Dyke, bus. mgr., 916 Clark St., soon lets contract Hall of Music, 4 story, basement, on campus. $600,000. James Gamble Rogers, 156 East 46th St., New York, and Childs & Smith, 720 North Michigan Ave., Chicago, archts. Noted June 26.

Ill., Wilmette—St. Joseph Parish, J. A. Neuman, pastor, 1767 Lake Ave., plans by H. J. Gaul, 228 East Superior St., Chicago, parochial school, Ridge Ave and Lake St. $250,000. **Maturity during 1932.**

Ind., Greencastle—De Pauw University, Dr. Oxnam, pres., sketches new college. J. H. Harrison donated $250,000 for same.

Ind., Terre Haute—Indiana State Teachers College, 217 North 6th St., c/o J. T. Beasley, Chamber of Commerce Bldg., sketches training school at Hemming Park adjacent to college campus. $400,000.

Ia., Cedar Rapids — Coe College plans by Graham, Anderson, Probst & White, 80 East Jackson Blvd., Chicago, Ill., Fine Arts Building, to exceed $150,000, also general campus development.

La., Lafayette—Southwestern Louisiana Institute, New Orleans, campus development, incl. additional dormitories and class buildings. Favrot & Livaudais, Hibernia Bldg., archts. for general plan.

Mass., Amherst—Massachusetts Agricultural College, Dpt. Educ., State House, Boston, administration building. $150,000. Architect not appointed.

Mass., Boston—City, Dpt. School Buildings, Girls High School, West Newton St., Everett School Dist., South End. $1,200,000. Architect not appointed.

Mass., Northampton—Smith College, F. King, Supt Buildings, new dormitory unit, Elm St. $150,000. Architect not appointed.

Mass., Reading — Town, School Dpt., elementary school, West Side Sect. $150,000 or more. Architect not appointed.

N. J., Jersey City—St. Peters College, J. S. Dineen, pres., Newark Ave., receiving sketches from selected list architects, 10 story, basement, 110 x 130 ft., brick, steel college, Gifford Ave. and Lincoln Park. $75,000. Noted Nov. 26.

Schools (Continued)

N. J., Middlesex — Bd. Educ., Watchung School, revised sketches by J. N. Pierson, 198 Jefferson St., Perth Amboy, 2 story, basement, brick, steel, rein.-con., Ramsey Lane and Virginia Ave. $200,000. Noted Nov. 26.

N. J., Mount Bethel — Bd. Educ., plans by Fischer & Brown, 102 North Ave., Plainfield, 2 story, basement, brick, steel school. $150,000. **Maturity indefinite.**

N. J., Newark—Bd. Educ., City Hall, revised sketches 3 story, basement, brick, steel, rein.-con. addition to Peshine Ave. School, Peshine Ave. $200,000. C. F. Bertrand, 122 Market St., archt. Noted Aug. 6.

N. J., North Bergen—Bd. Educ., R. F. Madden, supt., Twp. Hall, plans by L. Axt, 685 Hudson Ave., West New York, 3 story, basement, brick, steel, rein.-con. high school, $150,000 or more. **Maturity indefinite.** Noted Nov. 12.

N. J., Rutherford—Bd. Educ., 54 Elliot Pl., Park Junior High School, 3 story, basement, brick, steel, Park Ave. $150,000. **Maturity indefinite.** Architect not appointed.

N. Y., Garden City—Adelphi College, plans by McKim, Mead & White, 101 Park Ave., New York, campus development, incl. 9 or more buildings, on 70 acre site. To exceed $1,000,000.

N. Y., Valley Stream—School Dist. 24 plans by F. P. Wiedersum, 240 Rockaway Ave., school, Horton Ave. $275,000. Project subject to vote by District 24 and bond issue.

O., Alliance—Mount Union College, plans by Walker & Weeks, 2341 Carnegie St., Cleveland, Presser Music Hall. $175,000.

O., Cleveland—John Carroll University, H. R. Neff, chn. Building Com., Marshall Bldg., plans by Philip L. Small, Inc., Terminal Tower, group buildings, incl. mathematics hall, psychology, language, physics and biology, students dormitory, gymnasium, chemistry, history, library, philosophy buildings, all brick, steel, concrete, also athletic field, Kramer Blvd. $4,000,000. George S. Rider Co., Marshall Bldg., engrs.

O., Cincinnati—Bd. Educ., c/o C. W. Handman, bus. mgr., 511 West Court St., sketches by E. H. Kruckemeyer & C. R. Strong, 111 East 4th St., and takes bids in spring, 3 story, basement, brick grade school at Mt. Washington. $175,000.

Pa., Haverford — Havorford College plans building program to commemorate its centenary. To exceed $150,000. A. Busselle, 347 Madison Ave., New York, archt.

Pa., Pittsburgh—Bd. Educ., H. W. Cramblet, secy., Administration Bldg., plans by R. M. Trimble, 709 Ferguson Bldg., and making foundation tests Wm. M. Davidson High School, 3 story, basement, 50 x 225 ft., brick, limestone, with 40 x 170 ft. wing incl. cafeteria, auditorium and gymnasium, West Liberty Ave. $700,000, incl. $100,000 for caisson found. necessary due to abandoned coal mine under property. C. L. Wooldridge, Inc., Fulton Bldg., engrs. Noted Nov. 27.

Pa., Portage—Bd. Educ., W. D. Hughes, pres., rebuilding 3 story, brick, steel high school, Caldwell Ave. $150,000. Architect not appointed.

R. I., Providence—Women's College in Brown University, plans by Andrews, Jones, Briscoe & Whitmore, 50 Congress St., Boston, Mass., 2 dormitories and 1 recitation building. library. $600,000.

Tenn., Nashville—Tennessee Agriculture & Industrial Normal College, c/o P. L. Harned, comr., State of Tennessee Bd. Educ., War Memorial Bldg., 2 or 3 story, concrete, brick, stone administration building $125,000, 2 or 3 story, concrete, brick, stone health building $75,000, concrete, brick dairy and stock building $40,000, 1 and 2 story, concrete, brick, stone practice building. $50,000.

Wis., Green Bay—St. John's Catholic Congregation, 413 St. John St., plans by Foeller & Schober, 310 Pine St., 4 story, rein.-con., brick school, Jefferson St. Noted Dec. 17.

Wis., Juneau—Bd. Educ., E. Clifford, clk., sketches concrete, brick, steel high and grade school. $150,000. Architect not appointed.

BIDS ASKED

Calif., Fresno—Feb. 2, by State Dpt. P. Wks., Sacramento, brick, rein.-con. library building at State Teachers College. $175,000. Swartz & Ryland, Brix Bldg., archts. Noted Oct. 22.

Ind., Lafayette—Mar. 1, by Purdue University, 3 story, basement, 60 x 230 ft., steel, concrete, brick mechanical engineering building, on campus. $200,000. W. Scholer, Lafayette, archt. Noted Dec. 31.

Ind., Tipton — St. Josephs Academy, bids about Feb. 15, 2 story, basement, 85 x 94 ft., rein.-con., brick, steel, stone, glazed tile school known as St. Katherine Hall. $150,000. C. Houck, 515 Ashland Ave., Muncie, archt. Noted Oct. 29.

Md., Baltimore—Jan. 29, by Smith & May, archts., Baltimore Trust Bldg., 2 story, basement, 122 x 140 ft., local stone, brick, Whitehouse Rd. near Black Rock, $150,000; 2 story, basement, 60 x 200 ft., local stone, brick, York Rd., 2½ mi. north of Parkton, for Bd. Educ., Baltimore County, Lexington Bldg. H. Massart, 328 North Charles St., engr.

Mass., Taunton—St. Mary's Roman Catholic Church, c/o J. I. Higgins, archt., Borden Blk., Fall River, bids about Jan. 25, Monseigneur Coyle High School, 2 story, basement, brick, stone, plain found., Summer St. $150,000 or more. Noted Oct. 15.

N. J., Carlstadt—Bd. Educ., P. Sheridan, clk., Boro Hall, bids about Feb. 23, sketches Junior High School, 2 story, basement, brick, steel, rein.-con., Washington St. $150,000. G. F. Bial, 241 Bell Ave., Hasbrouck Heights, archt. Noted Dec. 31.

N. J., Hasbrouck Heights — Bd. Educ., R. Beyer, chn. Special Housing Comm., Franklin School, bids about Feb. 23, 2 story, basement, brick, steel addition to Lincoln School, Ottawa Ave. $150,000. E. Williams, 131 West Passaic Ave., Rutherford, archt. Noted Dec. 24.

N. J., North Plainfield—Bd. Educ., 125 Somerset St., bids about Feb. 23, general contract 2 story, basement, brick, steel, rein.-con., Harrington Property. $150,000. J. N. Pierson & Son, Smith St., Perth Amboy, archt. Noted Dec. 10.

N. J., Ridgefield Park — Bd. Educ., G. Noethling, dist. clk., Ridgefield Park, bids about Apr. 1, general contract 2 story, basement, brick, steel addition to Grand School, Teaneck Rd. $200,000. Hacker & Hacker, 201 Main St., Fort Lee, archts. Noted Dec. 17.

N. J., Union—Bd. Educ., High School, bids about Apr. 15, general contract 2 story, basement, brick, steel addition to Connicut Farms School, Stuyvesant and Morris Aves. $150,000. F. A. Elsasser, 1000 Stuyvesant Ave., archt. Noted Nov. 19.

CONTRACTS AWARDED

Conn., Darien—Bd. Educ., E. B. Fuller, supt. Renshaw Rd., general contract 2 story, basement 95 x 175 ft., brick, steel, rein.-con., plain found., Glenbrook Sect., to Charles Smith & Sons, Inc., 101 Water St., Derby. Est. $150,000. Noted Dec. 24.

Conn., Hartford—West Middle School Dist., F. B. Merrels, chn. School Com., 2 story, 80 x 120 ft. brick, rein.-con., steel, classroom and gymnasium unit, Noah Webster School, to Cudemo & Co., 52 Whitney St. Est. $150,000. Noted Dec. 17.

Conn., Weston—Town, School Com., 1 story, basement, 120 x 150 ft., brick, steel school, library and laboratory, to T. J. Pardy Co., 1481 Seaview Ave., Bridgeport.

Ill., Hinsdale—See "Churches."

Mass., Wrentham—Commonwealth of Massachusetts, Dpt. Mental Diseases, State House, Boston, 3 story, basement, brick, stone infirmary, plain found., at Wrentham State School, to Griffin-Bordiere Constr. Co., Inc., 42 Metcalf St., Medford, $98,900; heating, to Cragin & Wilkins, 12 Mt. Pleasant Ave., Leominster, $16,944; plumbing, to J. F. Cabeen, 81 North St., Salem, $11,500; electrical work, to Barnes-Pope Co., 96 Brookline Ave., Boston, $2,975. Grand total $130,319. Noted Oct. 1.

N. Y., New York — New York Academy of Medicine, 2 East 103rd St., medical academy addition, to Marc Eidlitz, 100 East 42nd St. Est. $400,000.

N. Y., New York—Todd, Robertson & Todd Eng. Co., 347 Madison Ave., 50,000 cu.ft. grey Deer Island granite for use in buildings now being erected in Rockefeller mid-city development, to Deer Island Granite Corp., Grand Central Terminal, and Stonington, Me., for Metropolitan Square Corp., 61 Bway. Est. $1,000,000. Noted Mar. 19.

REPORTED BUILDING PROGRAMS OF UNIVERSITIES AND COLLEGES

Ala., Birmingham—Southern College, recitation hall and men's gymnasium. To exceed $150,000.

Calif., Claremont — Scripps College, gymnasium and fine arts building. To exceed $150,000.

Calif., Hollywood—Immaculate Heart College, 5515 Franklin Ave., Hall of Fine Arts, also dormitory or residence. To exceed $150,000.

Calif., La Verne — La Verne College, additional buildings in furtherance of general campus plan. To exceed $150,000.

Calif., Redlands—University of Redlands, several new college buildings. To exceed $150,000.

D. C., Wash. — American University, Massachusetts and Nebraska Aves. N. W., additional dormitories. To exceed $150,000.

Ill., Carthage—Carthage College, field house, gymnasium and other campus development. $150,000.

Ill., Decatur—Milliken University gymasium and field house. To exceed $150,000.

Ill., Dubuque—University of Illinois science building. To exceed $150,000.

Ill., Wheaton — Wheaton College, 2 dormitories and field houses. To exceed $150,000.

Ind., Indianapolis—Butler University, Sunset Blvd., dormitory, college of religion and other buildings. To exceed $150,000.

Ia., Cornell—Cornell College dormitory. To exceed $150,000.

Kan., Baldwin — Baker University, fine arts and hall of music buildings. To exceed $150,000.

Kan., Emporia—College of Emporia, additional buildings. To exceed $150,000.

Kan., Wichita—University of Wichita, 1845 Fairmont Ave., sketches library. To exceed $150,000.

Ky., Berea—Berea College, plans college building. To exceed $150,000.

Ky., Danville—Centre College dormitory, other buildings. To exceed $150,000.

Me., Orono—University of Maine, plans by Crowell & Lancaster, Bangor, library addition, class building. To exceed $150,000.

Md., Baltimore — Goucher College, St. Paul and 23rd Sts., general building development on 420 acre site.

Mich., Alma—Alma College chapel or other building. To exceed $150,000.

Mich., Jackson—Millsaps College, physical education or other college building. $150,000.

Minn., Northfield—Carleton College, library and class room building. $800,000.

Minn., Northfield—St. Olaf College, library, girls' dormitory. To exceed $150,000.

Miss., Clinton—Mississippi College, additional buildings, incl. administration building. $250,000.

Mo., Tarkio — Tarkio College, science hall with laboratories. To exceed $150,000.

Mont., Helena—Intermountain Union College, combination gymnasium, library and social room. $150,000.

Neb., Omaha—Creighton College, 25th and California Sts., library and students-union building. To exceed $150,000.

N. J., Hackettstown — Junior College of Centenary Collegiate Institute, college buildings. To exceed $150,000.

N. Y., Allegany — St. Bonoventure's College, seminary and science hall with laboratories. To exceed $150,000.

N. Y., Annadale-on-Hudson—St. Stephens College, additional buildings. To exceed $150,000.

N. Y., Hamilton—Colgate University, dormitory, gymnasium. To exceed $150,000.

N. Y., Keuka Park—Keuka College, chapel and community building.

N. Y., Rochester — Nazareth College, 402 Augustine St., additional college buildings. To exceed $150,000.

N. C., Davidson — Davidson College, new library, infirmary. To exceed $150,000.

N. C., Salisbury—Catawa College, dormitory, library and other buildings under general plan. To exceed $150,000.

N. C., Raleigh—Merideth College developing general plan, replacing following temporary buildings, auditorium, gymnasium, science buildings with laboratories, arts building with classrooms and offices. To exceed $150,000. **Maturity indefinite.**

O., Berea—Baldwin-Wallace College, additions to follow general campus plan. To exceed $150,000.

O., Cincinnati — St. Xavier College, Victory Parkway, alumni science hall with laboratory. To exceed $150,000.

O., Columbus—Capital University, 2199 East Main St., dormitory, science hall and other buildings planned under general campus plan. To exceed $150,000.

O., Delaware—Ohio Wesleyan University women's freshmen dormitory. $150,000.

O., New Concord—Muskingum College, auditorium and student buildings. To exceed $150,000. **Maturity indefinite.**

Okla., Norman—University of Oklahoma, J. E. Smay, building, Natural History Museum. $500,000.

Pa., Bethlehem — Moravian College & Theological Seminary, auditorium, recreation and other buildings. $150,000.

Pa., Grove City—Grove City College, science building or dormitories. To exceed $250,000.

Pa., Haverford — Haverford College art museum, dormitory. To exceed $150,000.

Pa., Huntington—Juniata College music hall. $150,000.

Pa., Lebanon—Lebanon College plans gymnasium. To exceed $150,000.

Pa., Rosemont—Rosemont College chapel and other buildings. To exceed $150,000.

Pa., Selinsgrove — Susquehanna College, library unit. $150,000. **Maturity indefinite.**

S. C., Greenville—Furman University, college building. To exceed $150,000. **Maturity indefinite.**

S. D., Huron — Huron College, library and science hall with laboratories. To exceed $150,000.

S. D., Mitchell—Dakota Weslyan University, library. $600,000.

S. D., Yankton — Yankton College, men's dormitory. To exceed $150,000.

Tenn., Nashville—Fisk University, 17th Ave. N., college. To exceed $150,000.

Tex., Commerce—East Texas State Teachers College library. $250,000.

Va., Hollins — Hollins College, additional buildings and development of general plan. To exceed $150,000.

Va., Lexington — Washington and Lee University sketches auditorium. To exceed $150,000. **Maturity indefinite.**

Va., Salem — Roanoke College science hall containing laboratories.

Va., Sweet Briar—Sweet Briar College, gymnasium. $150,000.

Wash., Tacoma — College of Puget Sound, library, women's and men's dromitory. To exceed $150,000.

Wis., Beloit—Beloit College college. $150,000.

Wis., Milton — Milton College, several new buildings. To exceed $150,000.

W. Va., Huntington—Marshall College, additional buildings, part of general plan. **Maturity indefinite.**

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HOSPITALS

PROPOSED WORK

Conn., Wallingford — Parkhurst Sanitarium, W. H. Brinley, 95 Lenox St., New Haven, sanitarium, South Main St. $150,000 or more. Architect not appointed.

Ill., Chicago—Sister Mary, Alma Superior, 2700 West 69th St., plans by M. E. Zaldokas, 1908 West Division St., and soon takes bids Holy Cross Hospital, 2700 West 69th St. $200,000.

Ill., East Moline — Sisters of St. Francis, sketches by H. J. Gaul, 228 East Superior St., Chicago, 3 story, basement, probably brick, stone hospital addition. $200,000.

Me., Togus—National Home for Disabled Volunteer Soldiers, R. L. Marston, Skowhegan, soon lets contracts 1 story, basement, 45 x 330 ft., brick, stone, steel hospital, plain found. $750,000. H. S. Coombs, 11 Lisbon St., Lewiston, archt. Noted Sept. 24.

N. J., Holmdel—Dpt. Institution & Agencies, State Office Bldg., Trenton, sketches by Div. Architecture & Constr., State Office Bldg., Trenton, 2 story, basement, brick, steel tuberculosis hospital. $400,000.

N. J., Long Branch—C. C. Hartmann, archt., Greenboro, N. C., general contract bids in March, on revised plans 4 story, basement, brick, steel hospital, Washington Ave. and Dewey St., for E. C. Hazard Hospital, E. C. Hazard, 81 Washington St. $150,000. Noted Oct. 15.

Tenn., Nashville—See "Schools."

Tex., San Angelo — M. E. Shannon, new hospital.

BIDS ASKED

Ind., Indianapolis—Indiana Insane Hospital, 3000 West Washington St., bids about Mar. 9, 3 story, basement men's hospital building, rein.-con., brick, steel, stone, terrazzo. $175,000. McGuire & Shook, Fletcher Trust Bldg., archts. Bevington & Williams, Indiana Pythian Bldg., engrs. Noted Dec. 17.

Mass., Harwich—H. Adams, R. C. Cameron, mgr., Hyde Park, taking bids 1 story and 2 story, basement, 40 x 85 ft. each, and 2 story, 65 x 75 ft., colonial frame hospital. $150,000. F. Richenburg, 70 Augustus Ave., Roslindale, archt.

Mo., St. Louis—Bd. P. Serv., City Hall, bids about Mar. 15, (1st unit) Negro City Hospital group to consist service building, boiler house, laundry, dining hall and employees quarters, Goode Ave., Ste. Ferdinand, Kennerly and Whittiers Sts., $350,000. Bids later on 6 story, basement, central hospital building, and one of two 5 story wings, $850,000; eventually second 5 story wing, superintendent's residence and nurses' home will be erected. Total $2,000,000. A. Osburg, City Hall, archt. L. R. Bowen, City Hall, engr. Noted Dec. 31.

N. J., Jersey City—Bd. City Comrs., City Hall, bids about Mar. 1, 15 story, basement, rein.-con., steel psychopathic hospital, Baldwin and Montgomery Sts. $750,000. J. T. Rowland, Jr., 30 Journal Sq., archt. Noted Nov. 12.

N. J., Newark—J. H. and W. C. Ely, archts., 65 Washington St., new bids about Feb. 15, general contract altering and constructing 4 story, basement, brick, steel hospital addition, Central Ave., for Newark Ear & Eye Infirmary, 77 Central Ave. $150,000. Noted Dec. 10.

Pa., Polk—Feb. 3, Comm. of Pennsylvania Polk State School. H. M. Watkins, supt., 2½ story, basement, 46 x 189 ft. with two 68 x 145 ft. wings, brick, steel, stone infirmary at Institute. $370,000. L. Stevens, 132 7th St., Pittsburgh, archt.

CONTRACTS AWARDED

Mass., Fall River — Union Hospital, J. Smithies, supt., 338 Prospect St., 4 story, basement, brick, stone, steel nurses home, plain found., to F. J. Rudd, 534 Weetamoe St. est. $200,000; plumbing, to N. Miller & Sons, 189 Durfee St., est. $25,000; heating and ventilating, to Fall River Steam & Gas Pipe Corp., 205 Bedford St., est. $25,000. Former contract rescinded. Noted Dec. 31, under "Contracts Awarded."

N. Y., New York—Dpt. Hospitals, Municipal Bldg., general contract altering and constructing nurses' home addition at Fordham Hospital, to Switsky & Co., $38,994; plumbing, to P. R. Tully, 403 East 105th St., $3,164; heating, to H. J. Merritt Co., $3,630. Grand total $45,788. Noted Dec. 17.

N. Y., New York—Dpt. Hospitals, J. G. W. Greeff, comr., Municipal Bldg., general contract 4 story, basement male dormitory, on 36 x 95 x 139 ft. site, for Metropolitan Hospital Hospital, Welfare Island, to Hudson Contg. Co., 1265 Bway., $212,200; heating, to Roxy Plumbing Co., 155 East 128th St., $1,450; plumbing, to Triboro Plumbing Co., 96-10 Northern Blvd., Corona, $2,044; electrical work, to Rao Eng. Co., 405 Lexington Ave., $5,750. Grand total $221,444. Noted Dec. 17.

N. Y., Pine Aire Station — Dpt. Mental Hygiene, State Office Bldg., Albany, general contract farm buildings at Pine Aire State Hospital to J. Young, Jr., 103 Park Ave., New York, $62,200; sanitary work, to E. V. McGovern, 251 East 66th St., $3,280; heating, to L. L. Lewis, 122 East 42nd St., $3,212. Grand total $68,692. Noted Dec. 10.

Ont., London—Watt & Blackwell, Victor Bldg., archts., 3 story, basement, 45 x 290 ft., stucco, 150 bed pavilion sanatorium to Putherbough Constr. Co., New Bank of Toronto Bldg., $108,153; 3 story, 40 x 60 ft., brick nurses home addition, to Harry Hayman & Son, Bank of Nova Scotia Bldg., $32,327; 300 hp. boiler for additional heating unit, to E. Leonard & Sons, London; plumbing and heating, to Noble & Rich, 237 Queens Ave., for London Health Assn., Byron. Noted Nov. 19.

CHURCHES

PROPOSED WORK

Ill., Chicago—Messiah Evangelical Lutheran Church, 900 North Waller St., soon takes new bids 3 story, basement, 55 x 120 ft. parsonage and parish hall, Massasoit and Iowa Sts. $175,000. L. E. Stanhope, 55 East Washington St., archt.

Mass., New Bedford — First Primitive Methodist Church Society, F. Dracup, pastor, 358 Summer St., church, Highland and Topham Sts. $150,000. Architect not appointed.

Mass., Quincy — St. Ann's Roman Catholic Church, A. Fitzgerald, pastor, 757 Hancock St., new church, Hancock St. $150,000 funds being raised. **Maturity indefinite.** Architect not appointed.

Mass., Springfield — Third Baptist Parish, G. R. Waller, pastor, 80 King St., sketches by H. L. Sprague, 1579 Main St., and G. E. Merrill consult. archt., 23 East 26th St., New York, 1 story, 45 x 130 ft., brick, stone church, parish house, Walnut St. and Pendleton Ave. $150,000. **Maturity in spring.**

Mass., Westfield—Episcopal Church of Atonement, Court St., new church, Court St. $150,000. Architect not appointed.

N. H., Moultonville—Moultonville Methodist Episcopal Church, sketches by A. H. Dow, 192 Boylston St., Boston, Mass., rebuilding church. **$150,000.**

N. J., Essex Fells — Goodwillie & Moran, archts., 56 West 45th St., New York, bids in April or later, general contract 2 story, basement, brick, steel church, parish house and parsonage, for St. Peter's Espiscopal Church, Roseland Ave. $200,000. Noted Nov. 5.

N. J., Hoboken — Holy Trinity Evangelical Lutheran Church, C. T. McDaniel, pastor, 204 10th St., plans by W. J. Dilthey, 120 Liberty St., New York, 2 story, basement, brick, steel church, 10th and Garden Sts. $150,000. Noted Nov. 26.

N. J., Perth Amboy — St. Mary's Roman Catholic Church, c/o G. Brooke, archt., 216 Smith St., revised plans 2 story, basement, brick, steel convent, Mechanic St. $150,000.

N. J., Union — Connecticut Farms Presbyterian Church, 2 story, basement, brick, steel addition, Chestnut St. $150,000. **Maturity about March.** Architect not appointed.

N. J., Union — Owner, c/o F. A. Elssasser, archt., 1000 Stuyvesant Ave., completed plans altering and constructing 3 story, basement, brick, steel church addition. $150,000. Noted Nov. 26.

N. Y., East Rochester—St. Jerome's Church, B. J. Gefell, pastor church and convent. $160,000.

R. I., Cranston (mail Providence)—Santa Maria Delta Civita Roman Catholic Church, C. Schettini, pastor, 1521 Cranston St., Providence, plans by E. Migliori, 210 Broadway, Providence, 1 story, basement, 60 x 120 ft., concrete, brick, steel, plain found., Knightsville Sect. $150,000. **Maturity in spring.** Noted Jan. 29, 1931.

R. I., South Kingston (mail Kingston)—St. Francis Roman Catholic Parish, J. A. O'Rourke, pastor, church. $150,000 or more. Architect not appointed.

BIDS ASKED

N. J., Newark — H. J. Weiler, archt., 40 Romaine St., bids about Feb. 23, general contract 1 story, basement, brick, steel church, Oliver St. between Adams and Van Buren Sts., for Our Lady of Mount Carmel Roman Catholic Church, E. D. Aquilla, pastor, East Mechanic St. $150,000. Noted Oct. 1.

Pa., Pittsburgh—Bd. Educ., H. W. Cramblet, secy., Administration Bldg., bids in spring William M. Davidson High School, 3 story, basement, 60 x 223 ft., with 40 x 170 ft. wing, brick, limestone, incl. cafeteria, auditorium, gymnasium, West Liberty Ave. $600,000. R. M. Trimble, Ferguson Bldg., archt. C. L. Wooldridge, Inc., Fulton Bldg., engrs. Noted Nov. 27.

Tex., San Antonio — St. John's Lutheran Church, c/o A. L. Wolff, 216 Alamosa St., bids after Jan. 15, 1 and 2 story, rein.-con., brick, steel, Gothic type church, panels to be acoustically treated, incl. 45 x 130 ft. tower, plain found., Nueva St. $100,000-$150,000. M. Eichensoht, Maverick Bldg., archt.

CONTRACTS AWARDED

Ill., Berwyn—Catholic Bishop of Chicago, c/o St. Leonards Roman Catholic Church, J. P. Campbell, pastor, church, to W. J. Lynch Co., 844 Rush St., Chicago. Est. $150,000. Work started.

Ill., Hinsdale—Catholic Bishop of Chicago, c/o St. Isaac Jacques Roman Catholic Church, R. Tormey, pastor, 15 South Garfield Ave., church, school, to McCarty Bros., 1846 West Washington St., Chicago. Work started.

THEATRES

PROPOSED WORK

Ill., Chicago—Owner, c/o Teich & Sullivan, achts., 64 West Randolph St., Chicago, theatre, store, North and Milwaukee Aves. $200,000. **Maturity during 1932.**

Md., Baltimore—F. Price Jr., 4302 Garrison Blvd., plans by J. J. Zink, 2826 Overland Ave., 1 story, basement, irregular sized, brick, steel, concrete moving picture theatre, Liberty Heights Ave. $175,000.

N. J., Newark—Owner, c/o F. P. Fried archt., 9 Clinton St., sketches 2 story, b ment, brick, steel theatre, store. $150,000.

OFFICES

PROPOSED WORK

N. J., Hackensack — Owner, c/o C. V Bogert, archt., 210 Main St., office. $150,0 **Maturity soon.**

N. J., Newark—Owner, c/o M. Villann archt., 604 Central Ave., East Orange, 2 sto basement, brick, steel office, store, $150,0

Tex., Longview — O. Daniels & Associa Longview, plans by W. C. Hedrick, Inc., 10 1st Natl. Bank Bldg., Fort Worth, 6 story, ba ment, 60 x 100 ft., brick, steel, stone offi store. $165,000. P. E. Zimmermann, Lo view, assoc. archt.

BIDS ASKED

N. J., Jersey City—See "Contracts Awarde

N. J., Jersey City—D. J. Scrocco, archt., Park Pl., Newark, bids about Mar. 22, gene contract 13 story, 100 x 150 ft. office, sto Summit Ave., for J. Siegel, Inc., c/o archite $650,000. Noted Oct. 1.

N. J., Newark—Roebling Coal Co., Inc., 1 Frelinghuysen Ave., taking bids general co tract 2 story, basement, brick, steel offi Frelinghuysen Ave. $150,000. J. B. Acocella, Clinton St., archt. Noted Dec. 10.

CONTRACTS AWARDED

N. J., Jersey City—Medical Arts Building C B. Gorlin, pres., Concourse Bldg., 4 story, ba ment, 100 x 160 ft., brick, steel medical buil ing, Hudson Blvd. and Fairmount Ave., separa contracts. $250,000. C. Shilowitz, 26 Journ Sq., archt.

Ont., Toronto—Toronto Hydro-Electric Sy tem, 225 Yonge St., caissons and concrete found for 9 story, basement, concrete, brick, stee stone office building, to Anglin-Norcross Ltd Temle Bldg. Total est. $1,000,000. Not Sept. 11.

STORES

PROPOSED WORK

N. H., Dover—Morrill Block, etc. reconstructing Morrill Block and adjoining bulidings, Main St., recently destroyed by fire. $500,000. Architect not appointed.

N. J., Hackensack—Sears-Roebuck Co., H. A. Wellbank in charge, 360 West 31st St., New York, bids in March, general contract 4 story basement, brick, steel, Main, Anderson and River Sts. $500,000.

N. Y., Elm Park—J. Weissglass, 2014 Forrest Ave., sketches 2 story, basement, brick, steel stores, office, garage, Forrest Ave. $150,000.

Ont., London—T. F. Kingsmill, Dundas St., plans by W. G. Murray, Richmond Bldg., rebuilding department store building, recently destroyed by fire.

Que., Montreal—Metropolitan Building Corp. plans by Barott & Blackader, Canadian Cement Bldg., 14 story, 48 x 110 ft. store and office building, St. Catherine St. E. near St. Andre St. $500,000. **Maturity not before spring.** No actual construction before May.

BIDS ASKED

N. J., New Brunswick—H. G. Bach, archt., 63 Schureman St., general contract bids about Feb. 15 on revised plans, 1 story, basement, brick, steel store, French and New Sts., for J. Lifkowitz, 333 Handy St. $150,000. Noted Jan. 7.

N. J., Westfield—F. P. Friedman, archt., 9 Clinton St., Newark, bids about Feb. 1, general contract 2 story, basement, brick, steel store, apartment, loft, garage, 135-39 East Broad St., for S. Nathan, 139 East Broad St. $150,000. Noted Jan. 14.

PUBLIC

PROPOSED WORK

Conn., New Haven—CITY HALL, AUDITORIUM, etc.—City, J. W. Murphy, mayor, plans by E. Swartout, 10 East 40th St., New York, brick, stone municipal group, to include city hall, city court auditorium, police station, etc., Church St. To exceed $150,000. E. Nettleton, City Hall, engr. Noted Oct. 29.

N. J., Jersey City—ARMORY—State Military Bd., Q.M.G. Office, Trenton, rejected bids Sept. 9, general contract armory, Montgomery St., Jordon and Summit Aves. $1,000,000. Appropriation vetoed and project will probably be abandoned. O. Hunt, Hunt Bldg., Trenton, archt. H. Kelly, 921 Bergen Ave., assoc. archt. Noted Sept. 3.

N. J., Montclair—MUNICIPAL—Bd. Town Council, Town Hall, 2 story, basement, brick, steel municipal building, $150,000. **Maturity indefinite.** Architect not appointed.

N. J., North Bergen—FIRE HOUSE—Township Com., Municipal Bldg., new sketches by R. B. Glenn, archt. and engr., Municipal Bldg., 2 story, basement, brick, steel. **$150,000.**

R. I., Pawtucket—HOME—City, C. W. Green, City Hall, plans by Monahan & Meikle, 255 Main St., brick, steel city home. $150,000.

Tex., Austin—LIBRARY—City, c/o A. R. Johnson, mgr., plans by H. F. Kuchne, Littlefield Bldg., 1 story, basement, 68 x 192 ft., rein.-con., stone library, incl. 300 seating capacity auditorium, 9th and Guadalupe Sts. $125,000.

Ont., Kitchener — OFFICE — Public Utilities Comn., V. S. McIntyre, mgr., plans by B. A. Jones, 31 Ontario St. and bids early in February, brick, steel, stone, King St. $150,000.

Public (Continued)

Ont., Toronto—ARMORIES—Fourteenth Infantry Brigade Armories Assn., c/o C. C. Harbottle, 347 Bay St., plans by Marani, Lawson & Morris, 38 Bloor St. W., and soon takes bids 1 and 2 story, 185 x 288 ft., concrete, brick, steel, stone, Fleet St. near Strachan Ave. $500,000.

Ont., Windsor—POST OFFICE—Dpt. P. Wks., Parliament Bldg., Ottawa, plans by C. E. Colthurst & J. E. Trace, Bank of Montreal Bldg., and Sheppard & Masson, 24 Chatham St. W., 6 story, basement, 94 x 210 ft., rein.-con., brick, steel, stone. $1,000,000.

BIDS ASKED

Mo., St. Louis—AUDITORIUM—Bd. P. Serv., City Hall, bids about Mar. 1, general contract (1st unit) 7 story, basement, rein.-con., brick, steel, stone, Market St. from 14th to 15th Sts. $3,700,000. Total est. $5,000,000. Plaza Comn., Inc., c/o LaBeaume & Klein, 716 Amer. Trust Bldg., archts. and engrs. Noted Dec. 3.

N. J., Union — TOWN HALL — Township Comn., F. E. Biertuempfel, Town Hall, bids about Mar. 1, general contract 2 story, basement, brick, steel, Union Centre. $150,000. F. A. Elsaaser, 1000 Stuyvesant Ave., town archt. Noted Nov. 12.

UNCLASSIFIED

PROPOSED WORK

N. Y., New York—MEDICAL MUSEUM—New York Academy of Medicine, 2 East 103rd St., medical museum. To exceed $700,000. **Maturity indefinite.**

Wash., Seattle—ART MUSEUM—Seattle Art Institute, under donation of Richard E. Fuller, sketches by Bebb & Gould, Hoge Bldg., 2 story, rein.-con., masonry. $250,000.

BIDS ASKED

Mass., Chelsea—SOLDIERS' HOME, etc.—Commonwealth of Massachusetts, Administration Comn., State House, Boston, plans by Coolidge, Shepley, Bulfinch & Abbott, Ames Bldg., Boston, and takes bids about Jan. 25, 3 story, basement, brick nurses' home, service building at Soldiers' home. $300,000. Noted Dec. 24.

Md., Baltimore—TEMPLE—See "Contracts Awarded."

Mo., Kansas City—EXCHANGE—Jan. 26, by Southwestern Bell Telephone Co., 11th and Pine Sts., St. Louis, 2 story, basement, 74 x 109 ft., rein.-con., brick, stone, terra cotta, 39th and Montgall Ave. $200,000. I. R. Timlin, 1916 Telephone Bldg., St. Louis, archt Noted Dec. 24.

Ont., Ottawa—LEGATION—French Government, bids about Mar 1, legation and minister's residence. $200,000. Architect not appointed. C. A. Henry, Stewart St., minister to Canada. Noted May 28.

CONTRACTS AWARDED

Me., Portland—EXCHANGE—New England Telephone & Telegraph Co., 50 Oliver St., Boston, Mass., and Densmore, LeClear & Robbins, archts., Park Sq. Bldg., Boston, Mass., 3 story, basement, brick, steel, plain found., Forest Ave., to R. Kennedy & Co., Inc., 465 Congress St. Est. $150,000. Noted Dec. 31.

Md., Baltimore—TEMPLE—Tall Cedars Building Corp., c/o W. Gordon Beecher, archt., 12 East Pleasant St., 3 story, basement, 79 x 184 ft., brick, structural steel, to Morrow Bros., Fidelity Bldg., $200,000. Taking sub-bids until Jan. 26. Noted Sept. 3.

O., Xenia — DINING HALL, etc. — Ohio Soldiers & Sailors Orphans Home, general contract 2 story, basement, 113 x 114 ft., steel, concrete dining room, kitchen, store room, to Galbreath & Leonard, 42 East Gay St., Columbus, $85,000; electrical work, to McKeever Electric Co., 50 West Broad St., Columbus, $4,200. Will soon award contract for refrigeration plant. Noted Nov. 12.

Pa., Phila. — EXCHANGE — J. T. Windrim, archt., 1201 Chestnut St., general contract 2 story, basement, 44 x 115 ft., rein.-con., concrete, brick addition, plain found., to Irwin Leighton, 1505 Race St.; heating and plumbing, to W. Anderson, 600 Schuylkill Ave., for Bell Telephone Co., 1835 Arch St. Est. $150,000. Noted Dec. 17.

Industrial Buildings

FACTORIES AND MILLS

PROPOSED WORK

Ariz., Wickenburg—MILL, etc.—Oro Grande Consolidated Mining Co., G. B. Upton, mgr., sketches 1,000 ton mill and lining 3-compartment shaft.

Mass., Boston—LAUNDRY—City, Hospital Dpt., rejected bids 2 story, 75 x 100 ft., brick, steel, plain found. $50,000 or more. Will readvertise. J. H. Ritchie & Associates, 250 Stuart St., archts. Noted Jan. 7.

Mass., Peabody — FACTORY — Lampert Leather Co., Hancock St., reconstructing factory, Hancock St., recently destroyed by fire. $90,000. Architect not appointed.

N. J., Hoboken—FACTORY, etc.—Hoboken Land & Impvt. Co., 1 Newark St., 2 story, basement, brick, steel manufacturing plant, warehouse, 15th and Bloomfield Sts. $40,000. **Maturity indefinite.** Architect not appointed.

N. J., North Bergen—FACTORY—C. O. Epperson & North Jersey Industrial Terminal Co., 1827 Bergen Turnpike, revised sketches 2 story, basement, brick, steel, 39th St. $50,000. Noted Dec. 3.

Pa., Munhall — STEEL MILLS — Carnegie Steel Corp., Carnegie Bldg., Pittsburgh, subsidiary U. S. Steel Co., 71 Bway., New York, steel mill additions to homestead properties. To exceed $40,000.

Pa., Mt. Jewett—GLASS FURNACE—Allegheny Glass Corp., R. A. Hill, pres., sketches glass tank, glass furnace, refractory materials. **Maturity in spring.** Engineer not appointed.

R. I., Providence — LAUNDRY — Swiss Cleansing Co., 675 Elmwood Ave., plans by Jenks & Ballou, New Industrial Trust Bldg., altering and constructing 1 and 2 story, brick addition. $40,000.

Tex., Odessa—POTASH REFINING PLANT—Texas Potash Co., Republic Bank Bldg., Dallas, surveys and testhole explorations in progress, mine, mill and refining unit at potash beds, near here. $2,000,000.

Man., Winnipeg—PLANT—Dominion Bridge Co., S. W. Campbell, genl. mgr., plant extension. $100,000. Private plans.

BIDS ASKED

Calif., Los Angeles—MILK PLANT, etc.—C. F. Whittlesey, archt., 1616 South Vermont Ave., bids about Jan. 30, 2 story, basement, 80 x 105 ft. milk plant, 1 story, 70 x 150 ft. garage with 40 x 80 ft. wing, rein.-con., steel, concrete, 31st St. and Grand Ave., for Western Holstein Farms, Inc., 3402 Avalon Blvd. $75,000.

La., Harvey—FACTORY—Favrot & Livaudais, archts., Nola Bldg., taking bids general contract new factory building, for Continental Can Co., Pershing Square, New Orleans. $125,000. Noted Jan. 7.

N. J., East Rutherford—FACTORY—J. T. Camlet, archt., 26 Piaget Ave., Clifton, bids about Feb. 23, general contract 2 story, basement, syringe factory, brick, steel, 54 Mozart St., for East Rutherford Syringe Co., 75 Mozart St. $50,000. Noted Jan. 7.

N. J., Lyndhurst—PRINTING PLANT—Commercial Leader Co., F. Burnes, pres., 356 Valley Brook Ave., bids about Apr. 1, general contract altering and constructing 2 story, basement, addition. $40,000. Noted Nov. 26.

N. J., Woodbridge—FACTORY—B. Farre, 59 Avenal St., bids about Feb. 23, general contract 2 story, basement, brick, steel addition, Wolf Pl. and Avenal St. $40,000. E. C. Wierzbicki, 175 Smith St., Perth Amboy, archt. Noted Nov. 19.

Tex., Willow Springs—GASOLINE PLANT—See "Contracts Awarded."

CONTRACTS AWARDED

N. J., Carlstadt—FACTORY—J. T. Camlet, archt., 26 Piaget Ave., Clifton, general contract 2 story, brick, steel, 14th St., to Kastner & Sons, 581 Broad St., for Plastic Marble Co., 321 11th St. Est. $40,000. Noted Dec. 24.

N. Y., New York—MANUFACTURING—Vincent Astor, 44 East 14th St., altering manufacturing and storage building, to Prosnitz-Glover, 369 Lexington Ave. Est. exceeds $40,000. Noted Jan. 7.

O., Cleveland—FACTORY—Ohio Crankshaft Co., W. C. Dunn, pres., 6600 Clement Ave., 1 story, 35 & 147 ft., brick, steel, addition, to J. L. Hunting Co., Guarantee Tile Bldg, Est. $40,000.

Pa., Washington—CLEANING PLANT—W. H. Young, archt., 30 West Chestnut St., 1 story, 20 x 27 ft., 14 x 90 ft. and 44 x 90 ft. addition, also alterations, incl. raising roof, new roof, white enamel brick interior, other alterations, to Washington Eng. & Constr. Co., Oakland St. and Pennsylvania Ave. for A. and P. Cleaners & Dyers, D. Reshick, prop., 9 North Ave. Est. $40,000. Noted Jan. 7.

Tex., Willow Springs—GASOLINE PLANT—Arkansas Fuel Co., c/o K. E. Jones, Shreveport, La., 30,000 gal. gasoline refinery, 6 mi. west of Longview, day labor. Private plans.

GARAGES

PROPOSED WORK

Mass., Norwood—Norwood Motor Sales, C. A. Riley, 35 Adams St., 1 story garage, sales, service and showroom building. $40,000-$50,000. Private plans.

Minn., Minneapolis—See "Residential."

BIDS ASKED

Calif., Santa Ana—M. Medlock, 820 North Main St., taking bids 1 story, 115 x 121 ft., brick, stucco, tile, cast stone, terrazzo, concrete, steel garage, sales room, 806 North Main St. $40,000. G. D. Riddle, 201 Pacific Southwest Bldg., Long Beach, and F. Landsdowne, 514½ North Main St., Santa Ana, archts. Noted Dec. 24.

Minn., St. Paul—Jan. 26 (extended date), by C. T. Erickson, comr. Purchases, 10 State Capitol Bldg., 2 combined control stations and garages, one in Brainard, other in Mankato, for State Hy. Dpt. Toltz, King & Day, 1212 Builders Exch. Bldg., archts. Noted Dec. 17.

N. J., Newark—G. E. Jones, archt., 24 Commerce St., taking bids 1 story, basement, brick steel garage, office, Lister Ave. and Esther St., for International Excavating Co., 507 Raymond Blvd. $150,000.

N. Y., New York—See "Contracts Awarded."

N. Y., Winfield—See "Contracts Awarded."

CONTRACTS AWARDED

N. Y., New York — Boyerton Burial Casket Co., 43 West 60th St., contract 2 story, 83 x 105 ft. garage, chapel and showroom, to I. Thompson, Inc., 25 West 43rd St. $75,000. Noted Jan. 14.

N. Y., New York—J. Smith, 291 Minniford Ave., garage and shop, City Island Ave. and Tier St., separate contracts. G. S. Miller, 319 City Island Ave., archt.

N. Y., Winfield—V. Scuderi, 4009 82nd St., Jackson Heights, 80 x 100 ft. service garage, separate contracts. $40,000. C. Stedolph, Elmhurst, archt. Noted Jan. 14.

SHOPS AND FOUNDRIES

BIDS ASKED

N. J., Jersey City—SHOP—See "Contracts Awarded."

N. Y., Jamaica—REPAIR SHOP—N. Moncrief, 110-31 153rd St., bids about May 1, general and separate contracts 1 story, 38 x 100 ft. repair shop, 111th Rd. and 155th St. **Maturity about May 1.** Noted Jan. 7.

CONTRACTS AWARDED

N. J., Jersey City—SHOP—E. Wortman, 3 Hill St., general alterations to old buliding and constructing new 2 story, basement, brick, concrete block, addition to shop and dwelling, plain found., 1-3-5 Hill St., separate contracts. $40,000. B. D. Singer, 921 Bergen Ave., archt.

POWER PLANTS

PROPOSED WORK

Ill., Blue Island—City, G. J. Landgray, clk., City Hall, sketches power plant. $40,000. Site not selected. **Maturity this year.** A. L. Fox, city engr.

Mo., Sullivan—See "Contracts Awarded."

O., Piqua—City, c/o Commissioners, did not take bids Jan. 6, steam electric power plant, turbine generator, surface condenser, steam generating unit, incl. boilers, exhaust fans, motors, etc. Diesel engine. $810,000. Project held up by temporary court injunction. Burns & McDonnell Eng. Co., 406 Interstate Bldg., Kansas City, Mo. engrs. Noted Dec. 31.

Tex., Borger—S. J. Killion, Borger, granted electric franchise considerable improvements, power unit, lines, at electric plant.

BIDS ASKED

La., Morgan City—See "Waterworks."

CONTRACTS AWARDED

Miss., Starkville—City, T. J. Gladney, clk., furnishing material and complete construction electric light plant, to Fairbanks, Morse & Co., 1000 St. Charles St., New Orleans, $93,840. Noetd Dec. 3.

Mo., Sullivan—City, N. W. Shaffer, clk., two 210 hp. diesel engines, generators, exciters, and auxiliaries for municipal light and power plant, to Fairbanks Morse & Co., 217 South 8th St., St. Louis, $28,789; 8-panel switchboard, 600 kw. ultimate capacity, electrical district system materials, etc., to R. H. Bouligny, Inc., Arcade Bldg., St. Louis, $25,493. Rejected bids on power house building, oil storage tank, etc. Will readvertise. Noted Oct. 29.

N. J., Scotch Plains—Bd. Freeholders Union Co., Court House, Elizabeth, general contract altering and constructing 1 story, basement, brick, steel power house and garage addition, Bonnie Burns Sanitarium, to R. McLeod, Inc., 255 Main St., East Orange. Est. $40,000. Former contract rescinded. Noted Dec. 17, under "Contracts Awarded."

N. Y., Ossining — Commissoiner Correction, State Office Bldg., Albany, general contract power house, knit shop, tunnels, to L. Levine, 305 Bway., New York, $393,600; heating and plumbing, to J. T. Evans, Warwick, $318,520 and $13,500 respectively; electrical work, to Westchester Electric Equipment Co., 73 South Bway., Yonkers, $191,300. Grand total $916,920. Noted Dec. 10.

WAREHOUSES

PROPOSED WORK

Calif., Upland — W. W. Ache, archt., 1616 West 4th St., Los Angeles, soon lets contract 2 story, basement, 140 x 200 ft. lemon storage plant, rein.-con., steel, concrete, cork insulation, 4th Ave. and A St., for Upland Lemon Growers Assn. $90,000. Noted Jan. 2.

N. Y., New York—M. S. Rosenfeld, 56 East 115th St., plans by S. Roth, 1182 Bway., stockrooms, storage and garage, 56 East 115th St. $50,000.

O., Oxford—Bd. Trustees Miami University, W. P. Roudebush, secy., plans by Garber & Woodward, 4 West 7th St., Cincinnati, 2 story, basement food storage and preparation building, brick, rein.-con., concrete founds., incl. facilities for storing food in bulk and partial preparation of foods; also baking and ice cream plant, at C. I. & W. R.R. $100,000. Fosdick & Hilmer, Union Trust Bldg., Cincinnati, engrs.

BIDS ASKED

Mass., Boston—Jan. 26, by City, Hospital Dpt., 2 story, steel, metal covered storehouse at City Hospital. $40,000. Private plans.

N. J., Jersey City — Mahnken & Schultz, archts., 26 Journal Sq., bids about Feb. 23, general contract 1 story, basement, 150 x 200 ft. warehouse, Tonnelle Ave., for Culbert Pipe & Fitting Co., 170 8th St. Est. $150,000. Noted Nov. 28.

See proposal advertising on page 58

THEIR Confidence was Justified

WHEN 169 RAILROADS FAILED IN 1893, JOHN H. PATTERSON SAID:

"The year has been unparalleled in the history of the United States. Great questions were to be solved, every industry was stagnant. Some closed down, some lost courage, while a few pushed ahead and worked harder than ever with confidence in the future. We did not let the hard times interfere with our work. When times got duller, we advertised the more and worked the harder."

WHEN PIG IRON DROPPED 50% IN 1907, ANDREW CARNEGIE DECLARED:

"This panic will soon run its course and pass away leaving no impediment to the return, in due season, of another period of wholesome, because needed, expansion of our resources. . .

"We have had the greatest expansion of modern times. Reaction had to come—will prove healthful. Nothing can stay the rapid progress of the Republic. She is all right."

WHEN DEEP, DARK GLOOM RULED IN 1921, THOMAS FORTUNE RYAN SAID:

"Our merchants have been buying only what they can sell quickly for cash. The consumer has had to listen to so much pessimistic talk that he buys only what is absolutely necessary. People everywhere have been scared. They are getting over that.

"Our people are the greatest consumers of food and manufactured articles in the world in normal times—and normal times are coming back. . "

AMERICA CAME THROUGH!

In 1893 stark ruin stalked through the land. 467 banks failed in a few months. Mills, furnaces and factories shut down everywhere. Bankruptcy was on every hand. America had twice as many unemployed per thousand population as she has today. But she put them all back to work.

In 1907 panic broke loose. The production of pig iron dropped 50% in less than a year. All but the strongest men lost heart—"We are ruined", they declared, "recovery cannot come in our time." Yet in two years prosperity had returned.

In 1921, when many honest and thoughtful people were predicting worse conditions, the country was already beginning to climb to the greatest era of prosperity it had ever experienced.

History tells how America has fought and won 19 major depressions. Good times always follow hard times, as surely as day follows night. Prosperity always comes back. It is coming back *this* time, too.

Above all things, let us have faith.

America Has Beaten 19 Major Depressions
She will Beat this one

THE NATIONAL PUBLISHERS ASSOCIATION

"As the most nearly self-contained nation, we have within our own boundaries the elemental factors for recovery."

(From the Recommendations of the Committee on Unemployment Plans and Suggestions of the President's Organization on Unemployment Relief.)

CONSTRUCTION NEWS

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WATERWORKS

PROPOSED WORK

Conn., Portland—Portland Water Co., A. S. Dewing, pres., 266 Main St., enlarging present Portland reservoir by raising dam 3.5 ft., venturi meter tube to be installed in 10 in. main below dam. Water main connecting Portland and Middletown water systems to meet emergencies. Weston & Sampson, 14 Beacon St., Boston, Mass., engrs.

BIDS ASKED

Calif., Los Angeles—See "Contracts Awarded."

Calif., Los Angeles—See "Streets and Roads."

Calif., Pasadena — City Council, bids about Feb. 13, Pine Canyon Dam in San Gabriel Canyon, 265 ft. above stream, 750 ft. long on top, incl. 470,000 cu.yd. concrete, 400,000 cu.yd. excav. $5,770,000. S. B. Morris, ch. engr. and supt. Municipal Water Dpt. Noted Nov. 19.

La., Morgan City—See "Equipment."

Md., Baltimore—Feb. 3, by Bd. Awards, furnishing, delivering manhole frames and covers, also brass service pipe fittings to Bureau of Water Supply. L. Small, Municipal Bldg., water engr.

CONTRACTS AWARDED

Calif., Los Angeles—General Petroleum Company of California, 108 West 2nd St., will construct waste water separator, incl. piping, pumps, concrete work, at Berths 238, Los Angeles Harbor, day labor. $20,000. Former bids rejected Jan. 2.

Calif., Oakland—Bd. Comrs. East Bay Municipal Utility Dist., 25,000 gal. steel water tank, to California Steel Products Co., 452 Bay St., San Francisco, $992; 600 lin.ft. 36 in. rein.-con. pipe for Lafayette Reservoir, to W. V. Bernard, 3045 Humboldt St., $2,832; 8,000 lin.ft. 2 in. c.i. pipe, to Pacific States Cast Iron Pipe Co., 111 Sutter St., San Francisco, $1,480. Grand total $5,304. For 2,000 concrete meter boxes and 2,500 covers for same, to Art Concrete Wks., 24th and Adeline Sts., at $0.195 and $0.35 respectively.

Ill., Bloomington—H. Bock, city clk., replacing boilers, pumps, engines, generators, to Fairbanks-Morse Co., 217 South 8th St., St. Louis, Mo., $143,841.

Neb., Lincoln—A. A. Dobson, 824 1st Natl. Bank Bldg., assigned contracts mains in 18th St., to Chambers Constr. Co., 710 1st Natl. Bank Bldg., with consent of City Council. $30,330. Noted Jan. 7, under "Contracts Awarded."

N. Y., Long Island City—J. J. Dietz, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Cafrey St., to L. D. Gregory, 351 East 124th St., New York, $59,342; mains in 38th Ave., to S. Gallucci, 33 Railroad Ave., Corona, $8,412. Noted Jan. 7.

Man., East Kildonan—See "Sewers."

SEWERS

PROPOSED WORK

Calif., Los Angeles—See "Bridges."

Calif., Sacramento—City, J. Dean, mgr., surveys sewage disposal system to eliminate further pollution of Sacramento River. $300,000-$400,000.

Mich., Grand Rapids—City Comn., storm relief sewer program. $1,750,000. **Maturity in spring.** C. W. Darling, Grand Rapids, city engr.

N. Y., Scarsdale — Village Trustees, E. H. Jackson, clk., Village Hall, sewerage system in Dist. 2, all streets east of Morris Lane. $1,200,000. A. Boniface, city engr.

O., Cincinnati—Hamilton Co. preparing plans intercepting sewer from Harrison Ave. to Ohio River. $500,000. J. C. Rafferty, Court House, county sanitary engr.

O., Cleveland—City, negotiating for purchase of land and takes bids this fall additional digester tanks and sewage treatment plant for Southerly Plant. $2,000,000. G. B. Cascoigne, Leader Bldg., consult. engr. Noted Feb. 19, 1931.

Pa., Bedford—New sewage disposal plant or repairing existing plant. $175,000. Wright Eng. & Constr. Co., 25 North Park St., engrs.

Man., Winnipeg—City completed investigation sewage disposal plants, $15,000,000. W. S. Lee, 1266 University St., Montreal, Que., consult. engr.

BIDS ASKED

Calif., Los Angeles—See "Streets and Roads."

Md., Baltimore—Feb. 3, by Bd. Awards, storm drains in Sewer Dist. J-7 and G-9 as specified in Storm Water Contr. 173, incl. 1,380 lin.ft. 30, 33, 42, 48 and 54 in. brick and concrete drain, 1,740 lin.ft. 24, 27, 42 and 48 in. rein.-con. pipe drain, 760 lin.ft. 21 and 24 in. vitr. pipe drain, 1,700 lin.ft. 4 and 6 in. underdrain. G. E. Finck, Municipal Bldg., sewerage engr.

Mass., Boston — Feb. 1, by Dpt. P. Wks., sewers, grading in Centre St., West Roxbury. $25,000. J. A. Rourke, Dpt. P. Wks., comr.

Wis., Milwaukee — Feb. 5, by Metropolitan Sewerage Comn., 1 story, 27 x 40 ft. brick sewage booster station, caisson substructure, Port Washington. $43,000. J. L. Ferebee, Milwaukee, ch. engr.

Man., Brandon—See "Contracts Awarded."

Ont., Ottawa—Feb. 9, by Secretary Bd. Control, storm sewer along Rideau Canal Bank from Lewis St. to Ottawa River. $600,000. F. C. Askwith, City Hall, engr. Noted Jan. 21.

Man., East Kildonan — See "Contracts Awarded."

CONTRACTS AWARDED

Calif., Los Angeles—See "Streets and Roads."

Calif., Signal Hill—City Council, sewage disposal plant and water purification, incl. Imhoff tank type disposal and treatment plant, trickling filter, sludge bed, 60 ft. tower, 3 pumping stations, to J. D. Sherer & Son, 1865 East Anaheim St., $33,950. Noted Dec. 7.

N. Y., New York—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., underground drainage system, at 60th St. Yard, to E. J. Duffy Co., 12th Ave. and 42nd St.

N. Y., New York—S. Levy, pres. Manhattan Boro, Municipal Bldg., sewers in 49th St., to Remo Eng. Co., 645 Tremont Ave., $476,083. Noted Jan. 7.

Man., Brandon—City, G. F. Sykes, clk., City Hall, 1¼ mi. sewer from 1st St. and Pacific Ave. east to Assiniboine River, day labor. $56,000. W. H. Shillinglaw, City Hall, engr.

Man., East Kildonan—East Kildonan Municipality, Chamber of Commerce, Winnipeg, sewers, watermains, day labor. $35,000.

Ont., Welland — Crowland Twp., sewer and sewage disposal plant improvements, incl. 4,845 lin.ft. 15 in. tile sewers, to Damore Bros., 1472 Stanley St., Niagara Falls; pumphouse, to Diffin Constr. Co., Crowland St. W., Welland; pumps, to Stuart-Turner Machine Co., Barton St. E., Hamilton; aeration piping, to Laurie & Lamb, 300 St. Sacrament St., Montreal, Que.; electric wiring, to Port Colborne Electric Co., Port Colborne. Est. $60,000. Noted Jan. 7.

WASTE DISPOSAL

CONTRACTS AWARDED

Ore., Portland—City Comrs., new garbage incinerator, to D. N. Corp., Winston-Salem, N. C., $131,422. Est. $175,000. Noted Dec. 17.

BRIDGES

PROPOSED WORK

Calif., Los Angeles—Bd. P. Wks., City Hall, soon takes bids 526 ft. rein.-con., rigid frame type bridge, 39 ft. wide, 5 ft. sidewalk, at West Blvd., incl. 65 ft. span over Venice Blvd. and 49 ft. span over Pacific Electric R.R., also 2,905 cu.yd. concrete, 8 concrete lighting standards, pedestrian subway and stairway, curbing, guttering, lighting conduits, 6,743 sq.ft. 7½ in. special section compressed concrete and 11,234 sq.ft. 8 in. asphaltic concrete paving Venice Blvd., et al. $75,000. M. Butler, city bridge engr. Noted Sept. 10.

Ill., Chicago—Commissioners of Lincoln Park, L. Nettlehorst, secy., Clark and Center Sts., returned bids to have been opened Jan. 6, to bidders unopened constructing superstructure single leaf trunnion bascule bridge over Michigan Canal—superstructure north approach, between the south line of north pier terminal building and Michigan Canal—structural steel work for superstructure North Viaduct Bents 12 to 13

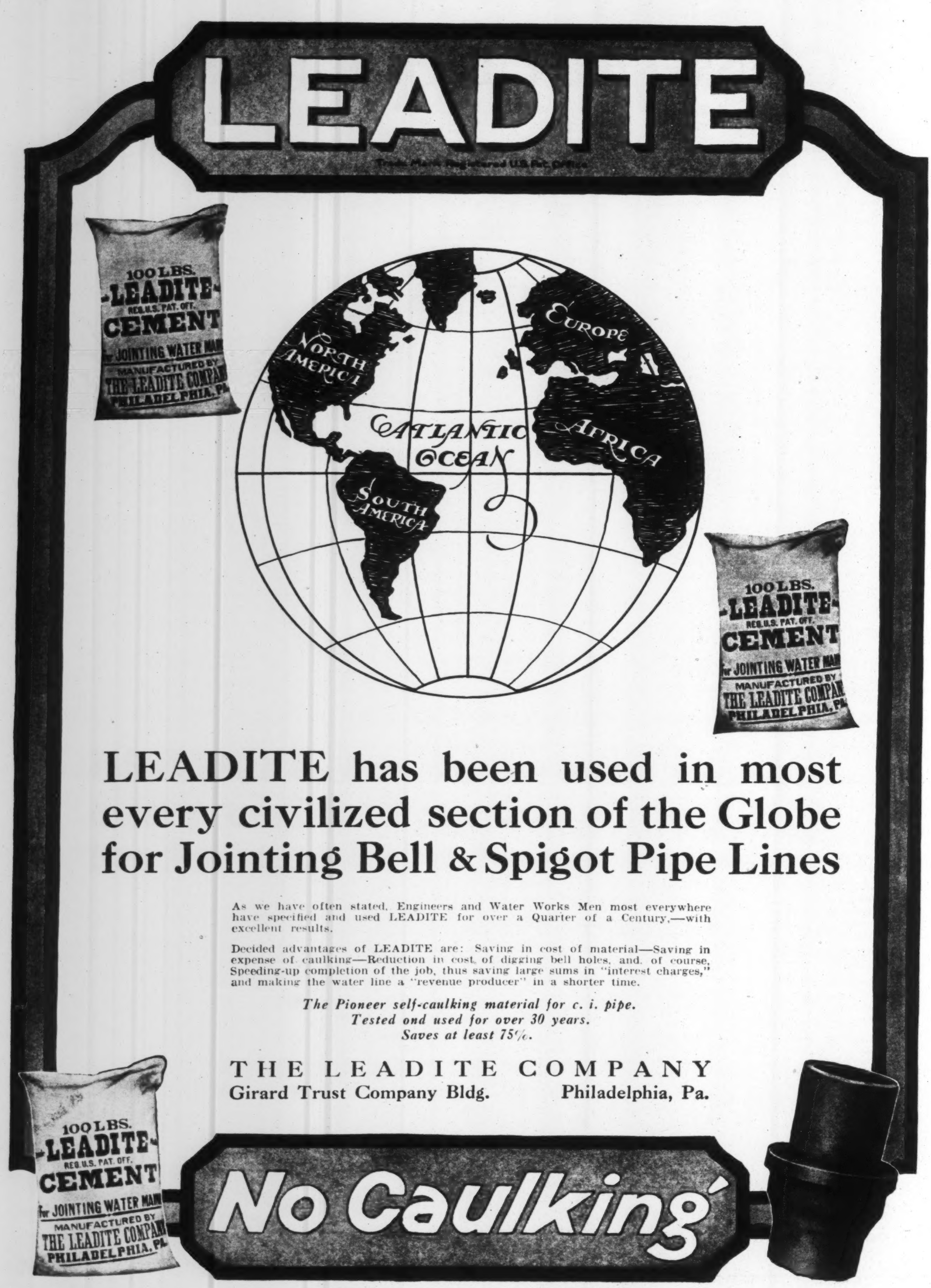
Constr. News page 27

Some of the Week's Large Projects

For further details turn to appropriate sections in this issue

Location	*Project*	*Cost*	*Status*
Sewers			
Grand Rapids	Storm sewers	$1,750,000	Proposed
Cleveland	Sewage-treatment plant	2,000,000	Proposed
Winnepeg (Man.)	Sewage disposal plants	15,000,000	Proposed
Streets and Roads			
Cincinnati	Widening street	1,250,000	Proposed
Grade Crossings			
Far Rockaway (N. Y.)	Grade elimination	2,185,000	Proposed
New York	Grade elimination	1,745,000	Proposed
Federal Government			
Hot Springs (Ark.)	Hospital	1,500,000	Proposed
Atlanta (Ga.)	Post office and court house	1,534,351	Contract
Alexandria (La.)	Hospital addition	1,000,000	Proposed
Scarsdale (N. Y.)	Sewerage system	1,200,000	Proposed
San Antonio	Post office	1,400,000	Proposed
Factories and Mills			
Los Angeles	Assembling plant	3,000,000	Proposed
Power Plants			
Missouri, Wisconsin, etc	Power plants, etc	19,000,000	Proposed
Buildings			
Chicago	Apartment	1,000,000	Day labor
Maplewood (N. J.)	Community center, residences, etc	1,000,000	Contract
Chicago	Office	1,000,000	Proposed
Kansas City (Mo.)	City hall	3,000,000	Proposed
Winnipeg (Man.)	Auditorium	1,000,000	Proposed
Chicago	Junior high school	1,000,000	Proposed

See proposal advertising on page 40


100 LBS.
LEADITE
REG. U.S. PAT. OFF.
CEMENT
for JOINTING WATER MAINS
MANUFACTURED BY
THE LEADITE COMPANY
PHILADELPHIA, PA.
NORTH AMERICA
EUROPE
ATLANTIC OCEAN
AFRICA
SOUTH AMERICA

LEADITE

Trade Mark Registered U.S. Pat. Office

LEADITE has been used in most every civilized section of the Globe for Jointing Bell & Spigot Pipe Lines

As we have often stated, Engineers and Water Works Men most everywhere have specified and used LEADITE for over a Quarter of a Century,—with excellent results.

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Tested ond used for over 30 years.
Saves at least 75%.

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Girard Trust Company Bldg. Philadelphia, Pa.

No Caulking'

Bridges (Continued)

(inclusive)—yielding barriers for single leaf trunnion bascule bridge over Michigan Canal, all part of Outer Dr. Improvement. Will readvertise.

Ind., Indianapolis—State Hy. Comn., Indianapolis, postponed indefinitely, taking bids to have been opened Jan. 26, 120 x 40 ft. rein.-con. bridge over White River at Meridian St. or Rd. 31. Will probably readvertise. $300,000. J. J. Brown, dir. Noted Dec. 24.

Mass., Boston—City, Park Dpt., 33 Beacon St., bridge from airport to War Memorial Park, dredging of channel, fill solid, new drainage system. $25,000 or more.

Ohio—Miami Co. (Troy) and Montgomery Co. (Dayton) plan joint county hy. bridge, probably two 150 ft. spans, steel truss type, present masonry pier and abutments to be concrete-jacketed over Miami River, on Ross Pike, between Miami and Montgomery Counties. $50,000. E. H. Bagford, Court House, Troy, surv., Miami Co.

Ohio—O. W. Merrell, dir. hys., Columbus, cancelled bids to have been opened Jan. 8, 70 ft. span, concrete beam bridge over Tanawa Creek, Sect. "A-2" Urbana-Sidny Rd., Shelby Co., $15,419—60 ft. span, concrete beam bridge over south branch of Portage River, Sect. "A-2" Baltimore-Fostoria Rd., Hancock Co., $16,014—36 ft. span, concrete beam bridge over Bear Creek, Sect. "A-1" Liberty-Adrian Rd., Fulton Co., $17,397, all foregoing 24 ft. roadway—24 ft. span, 68 ft. rein.-con. arch culvert, Sect. "D" Bellvue-Milan Rd., Erie Co. $15,802.

O., Cleveland—Bd. Comrs. Cuyahoga Co., F. G. Husak, clk., preparing plans west approach and retaining walls, rein.-con., structural steel bridge, Main Ave., $350,000. Wilbur Watson & Associates, 4614 Prospect Ave., consult. engrs. Noted Oct. 29.

Pa., Pittsburgh—City Council improving Panther Hollow Bridge, $93,000, and Junction Railroad Bridge, Schenley Twp., $82,000, incl. new flooring, sidewalks, strengthening trusses. C. M. Reppert, City-County Bldg., engr.

Tex., Waxahachie—Ellis Co. and State soon take bids 425 ft. rein.-con. bridge over Mountain Creek on Hy. 34, State Aid Project 754-1, Ellis Co. $35,000. A. C. Love, Ennis, engr.

BIDS ASKED

California—See "Streets and Roads."

Florida—Feb. 15, by State Road Dept., Tallahassee, H. H. Wells, chn., one 3 span and one 4 span 23 ft. concrete deck girder span bridge, 313 ft. long, on 16 in. precast concrete piling, 5 concrete box culverts, Federal Aid Project 72-D, Rd. 28, Putnam and Flagler Counties—216 ft., 3 span continuous steel I-beam bridge over Santa Fe River, concrete piers, Project 718-B Rd. 5-A, Alachua and Columbia Counties, 3,093 ft. bridge to have one hundred and twenty-two 25 ft. steel I-beam and one 40 ft. channel spans, creosoted pile bents with concrete deck, over Shoal River, Project 819-B, Rd. 54, Okaloosa Co. B. M. Duncan, state hy. engr.

Iowa—Feb. 2, by State Hy Comn., Ames, **(F.A.B. means Federal Aid Bridge)** 90 x 20 ft. pony truss bridge with two 40 x 20 ft. I-beam approach spans, and 9 culverts, extensions, Rd. 149 north of South English, F.A.B. 191 Keokuk Co.—37 culverts extensions, raising widening 24 x 18 ft. slab bridge, Rd. 14 north of Marshalltown, F.A.B. 332 Marshall Co.—27 culverts, extensions, adding wearing surface to 45 x 20 ft. pony truss bridge, Rd. 14 F.A.B. 332 Grundy Co.—25 culverts, extensions, Rd. 149 south of Williamsburg, F.A.B. 244 Iowa Co. B. Johnson, chn.

Missouri—Feb. 2, by State Hy. Comn., Jefferson City, bridges in Buchanan, Dade, Greene, Hickory, Jasper, Lewis, Miller, Newton, Nodaway, Polk, Sullivan, Taney, Vernon, Worth and Wright Counties. V. W. Enslow, state hy. engr.

Oklahoma—Feb. 2, by State Hy. Dpt., Oklahoma City, 10 span 138 ft. concrete, rein.-con. bridge at Bruner, Murray Co. $29,600; 12 span 171 ft. concrete, rein.-con. bridge at Tuskahoma, Pushmataha Co. $31,000. C. L. Wilson, hy. engr.

CONTRACTS AWARDED

Illinois—State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, to Burk Constr. Co., New Castle, Ind., bridges on Route 153, Sect. 110-B $9,325, Route 153 Sect. 110-C $7,665, both Washington Co.—to Casey Constr. Co., Casey, Route 133 Sect. 122-B Douglass and Coles Counties $32,399—to Clinton Bridge Wks., Clinton, Ia., Route 83, Sect. 121-B $7,764, Route 83, Sect. 121-C $6,736, both Mercer Co.—to A. Guthrie & Co., 400 West Madison Ave., Chicago, Route 139, Sect. 101-B White Co. $123,682—to Illinois Steel Bridge Co., Jacksonville, Route 80, Sect. 103-B-1 $8,229, Route 80, Sect. 103-C-1 $15,171, both JoDaviess Co.; Route 143, Sect. 105-B $37,863; Route 143, Sect. 105-C $15,866, both Saline Co.; Route 121, Sect. 111-B $18,574, Route 121, Sect. 111-C $7,176, both Logan Co., Route 133, Sect. 122-C Douglas Co. $7,717—to Indiana Road Paving Co., Rochester, Ind., Route 47, Sect. 129-B Champaign Co. $21,819—to I. D. Lain Co., Morton Grove, Route 62, Sect. 117-B Cook Co., $38,999—to H. L. Roberts, Rushville, Route 127, Sect. 105-V.B. Montgomery Co. $13,883—to Vincennes Bridge Co., Vincennes, Ind., Route 148, Sect. 120-B $38,144, Sect. 120-C $5,246, both Jefferson So., Route 139-S, Sect. 101-C White Co. $7,278. Grand total $423,536. Noted Sept. 3, Nov. 12, and Dec. 20.

Ill., Chicago—Cook Co., 91st Street Bridge, to Davidson & Docter, General Delivery, Chicago, $20,588.

Indiana—State Hy. Comn., Indianapolis, J. J. Brown, dir., concrete, steel truss bridge over Iroquois River, Contr. 453, Newton Co., to Vincennes Bridge Co., Vincennes, Inc., $18,360. Est. $22,974. Noted Dec. 10.

Iowa—State Hy. Comn., Ames, to Hildebrand & Kraugh, Belmond, raising, widening 16 x 18 ft. slab bridge, constructing 5 box and 5 concrete pipe culverts, Kossuth Co. $2,750—to F. Russell & Son, Waukon, concrete arch bridge, Winneshiek Co., $4,316—to H. Blatter, Chester, 11 culverts, extensions, Allamakee Co., $1,374, 24 culverts, extensions, F.A.B. 98 $7,627, 15 culverts, extensions, F.A.B. 284 $3,310, both Winneshiek Co. Grand total $19,377. Noted Dec. 31.

Mass., Lynn—City, Committee on Ways & Drainage, City Hall, pile structure, etc., Magnolia Ave., to R. B. Rendle Co., Inc., 364 Border St., East Boston, $4,533.

Ohio—O. W. Merrell, dir. hys., Columbus, 60 ft. span, concrete beam bridge, two 2.5 ft. sidewalks, 24 ft. roadway, over Bull Run, Sect. "C-1" Oxford-Millville Rd., Butler Co., to Christ & Beatty, Seven Mile, $40,148—60 ft. span, concrete beam bridge with steel beams, 29 ft. roadway over Upper Twin Creek, Sect. "H" Hillsboro-Chillicothe Rd., Ross Co., to A. W. Burns Constr. Co., 424 Woodland Ave., Columbus, $19,552—55 ft. span, concrete beam bridge over Bantas Creek, Sects. "C" and "D" Eaton-Greenville Rd., Preble Co., to A. Benzing & Sons, Hamilton, $13,234—widening, extending 2 bridges, building retaining wall, etc., Sect. "I" National Rd., Belmont Co., to Lewis & Copeland, Lima, $22,665—75 ft. span, concrete beam bridge with steel beams, over West Ford Black River, Sect. "M-2" Barberton-Greenwich Rd., Medina Co., to E. H. Amlin, Barberton, $22,533—two 35 ft. span creosoted timber bridge, steel stringers, over Harrington Ditch, and two 25 ft. span, creosoted timber bridge with steel stringers, over branch of Harrington Ditch, Sect. "M" Twinsburg-Elyria Rd., Lorain Co., to Ohio Eng. Co., Elyria, $15,482, all foregoing 24 ft. roadway—25 ft. span, creosoted timber bridge, with steel stringers, 30 ft. roadway over Little West Ford, Sect. "E" West Union-Hillsboro Rd., Adams Co., to Dodge-Hussey, Inc., 1175 West 5th Ave., Columbus, $16,400. Grand total $150,014. Noted Dec. 31 Daily.

Pennsylvania — State Hy. Dpt., Harrisburg, two 112 ft. span pony truss bridge, 32 ft. roadway, Route 568, Manheim Twp., Lancaster Co., to Keystone Paving Co., Inc., Harrisburg, $49,419. Noted Dec. 3, under "Streets and Roads."

Pa., Tyrone—Pennsylvania R.R. Co., Broad St. Station, Phila., T. J. Skillman, ch. engr., F. Heckel, div. engr. in charge, 441 Market St., Harrisburg, extension and repairs to stone arch bridge, 1 mi. west of here, to John F. Casey Co., Aspinwall. Est. $30,000.

Texas—G. Gilchrist, state hy. engr., Austin, 2 concrete deck girder bridges and 3 multiple box culverts, Hy. 4, Real Co., to Cage Bros., Bishop, $27,606 est. $40,000—2 concrete deck girder span bridges and 3 multiple box culverts, Hy. 36, Austin Co., to Thomas & Ratliff, Rogers, $17,615 est. $25,000—2 rein.-con. deck girder bridges and 9 multiple box culverts, Hy. 27, Pecos Co., to E. D. Porter, San Angelo, $39,930 est. $60,000—steel, concrete bridges over Salt Fork of Brazos River, incl. five 40 ft. steel I-beam spans, and five 171 ft. through steel truss spans, 20 ft. roadway, Hy. 120, Young Co., to J. F. Buchner, 407 North Main St., Cleburne, $108,927 est. $100,000. Grand total $194,078. Noted Jan. 14.

Texas—G. Gilchrist, state hy. engr., Austin, grading, drainage structures 4.621 mi. hy. Freestone Co., and 12.682 mi. Austin Co., to Valley Dredging Co., Donna, $24,304 and $37,199 respectively, est. $26,000 and $40,000 respectively—grading, small drainage structures 9.999 mi. hy. Pecos Co., to Sanders & Hurlburt, Three Rivers, $40,342 est. $52,000—7.046 mi. hy. Real Co., to Cage Bros., Bishop, $36,713 est. $40,000, all foregoing 26 ft. wide—caliche base course surfacing 21.272 mi. hy Jim Wells Co., to F. W. Heldenfels, Rockport, $52,183 est. $74,000 — grading, drainage structures, triple bituminous on caliche base surface treating 16.907 mi. Concho Co., to Trinity Farm Gravel Co., Box 1428, Dallas, $126,267 est. $170,000, all foregoing 18 ft. wide. Grand total $317,008. Noted Jan. 14.

Texas—G. Gilchrist, state hy. engr., Austin, thirty-one 28 ft. 6 in. steel I-beam stringer span, treated timber steel, concrete I-beam bridge, Burleson and Washington Counties, to Midland Constr. Co., Alexandria, La., $28,419 est. $30,000; 15 span steel, concrete bridge, incl. one 200 ft. through steel truss span and fourteen 52 ft. steel I-beam spans over Guadalupe River, Guadalupe Co., to Thomas & Ratliff, Rogers, $95,718 est. $100,000. Noted Jan. 14.

Alta., Calgary—For 2 span, 280 ft. steel truss bridge, timber abutments, concrete pier, 25th Ave., to Dominion Bridge Co., Calgary, $16,310. City will probably construct founds. by day labor. Noted Nov. 12.

Man., Winnipeg—City, W. P. Brereton, engr., 223 James St., concrete approaches and footings for 15 span, 2,200 ft. steel bridge, Salter St., to Carter-Halls-Aldinger, 400 Royal Bank Bldg., $247,729; steel work, to Dominion Bridge Co., Ltd., 702 Canada Bldg. Total est., $690,000. Project under construction.

STREETS AND ROADS

PROPOSED WORK

O., Cincinnati—Preparing plans widening East 5th St. $1,250,000. **Maturity in spring.**

BIDS ASKED

California—Feb. 3, by State Hy. Comn., Sacramento, grading, crushed gravel or stone surfacing 1.6 mi. road between point 3.4 mi. north of Angels Camp to point 1.8 mi. north of Angels Camp Calaveras Co.—grading, asphaltic concrete surfacing 14.7 mi. road between point 3 mi. west of Coyote Wells and Dixieland, Imperial Co.—1.5 mi. road through Glendora, Los Angeles Co.—grading, concrete surfacing 10.4 mi. road between Sapulveda Blvd. and Calabassas, Los Angeles Co. C. H. Purcell, hy. comr.

California—Feb. 10, by C. H. Purcell, engr. State Hy. Comn., Sacramento, grading, untreated crushed gravel or stone surfacing 0.4 mi. Benbow Bridge approaches, Humboldt Co.—oil treated crushed gravel or stone borders on 10.1 mi. road between El. Centro and Calexio, Imperial Co.—undergrade crossing, incl. 2 concrete abutments with wing walls under tracks Southern Pacific R.R. near Towle, Placer Co.

Calif., Los Angeles—Feb. 3, by Bd. P. Wks. City Hall, improving 9,882 ft. Holly Dr. and Deep Well Pl. Improvement Dist., incl. curbing, guttering, grading, storm and sanitary sewers, water system, cable system, electric lines and service conduits, 7,309 sq.ft. 6 and 8 in. concrete paving, 180,582 sq.ft. 4 in. bitumals paving. To exceed $25,000. J. J. Jessup, City Hall, engr.

Calif., Beverly Hills—Feb. 5, by City Council, grading, street lighting, asphaltic concrete paving 185,000 sq.ft. in Civic Center. To exceed $25,000.

Ill., Pekin—Feb. 10, by Bd. Supervs. Tazewell Co., grading 5.902 mi. Sect. 1A-15d, 30 ft., gravel surfacing 5.902 mi. Sect. 1-15d, 18 ft., also repairing twelve 44 ft. 4 in. I-beam span bridge over Mackinaw River. G. H. Baker, c/o State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, engr.

Iowa—Feb 2 by State Hy. Comn., Ames **(F.A.P. means Federal Aid Project)** grading, drainage structures paving 18.707 mi. Primary Rd. 14 from Rd. 58 towards Marshalltown, F.A.P. 332—A. B. Marshall Co.—8.793 mi. Primary Rd. 149 from Williamsburg south, F.A.P. 244—A. B. Iowa Co.—3.99 mi. Primary Rd. 149 south from English, F.A.P. 191 D. E. Keokuk Co. B. Johnson, chn.

Kentucky—Feb. 9, by State Hy. Dpt., Frankfort, grading, drainage structures, surfacing 2.6 mi. Glendale-Dixie Hy., Hardin Co. B. Johnson, chn.

Maryland—Feb. 2, by State Roads Comn., Baltimore, G. C. Uhl, chn., concrete paving 1.11 mi. Contr. F-157-54, Frederick Co.—1.02 mi. Contr. C1-101-54, Carroll Co.—macadam paving 549 ft. Contr. Ho-101-311, Howard Co.; adv. E. N.-R. Jan. 28.

Massachusetts—Feb. 2, by Dpt. P. Wks., A. W. Dean, engr., State House, Boston, bituminous macadam paving, incl. extending concrete arch bridge, rein.-con. bridge and plate girder bridge, 19,306 ft. hy. Needham and Wellesley. Former contract rescinded. Noted Dec. 3, under "Contracts Awarded."

Michigan—Feb. 2, by H. W. Hagaman, div. engr., 504 Eddy Bldg., Saginaw, widening existing grade and lengthening drainage structures, concrete paving 2.636 mi. and sheet asphalt paving 3,413 mi. hy. F073-29 Contr. 3, for State Hy. Comn., Lansing, Saginaw Co.

Minnesota—Feb. 16, by State Hy. Dpt., St. Paul **(S.P. means State Project and F.A.P. Federal Aid Project)**—concrete surfacing 230,785 sq.yd. S.P. 5-38, Sect. 3, F.A.P. 422-B, S.P. 5-38, Sect. 1, F.A.P. 422-C, S.P. 5-38, Sect. 2—253,143 sq.yd. S.P. 18-23 Sect. 1, Divs. B and C, F.A.P. 3, and Sect. 3, F.A.P. 9—grading, incl. portable and monolithic culverts, 564,000 cu.yd. S.P. 4-37, Sect. 1—211,000 cu.yd. S.P. 4-37, Sect. 2—364,000 cu.yd. S.P. 5-39 Sect. 2—181,000 cu.yd. S.P. 6-50, Sect. 2—443,000 cu.yd. S.P. 6-55, Sect. 1—372,000 cu.yd. S.P. 7-27, Sect. 3—33,000 cu.yd. S.P. 7-39, Sect. 1 Div. A—510,000 cu.yd. S.P. 11-39, Sect. 1. State furnishes cement and reinforcing steel.

Missouri—Feb. 2, by State Hy. Comn., Jefferson City, improving roads in Andrew, Buchanan, Christian Dade, Daviess, Dent, Greene, Hickory, Jasper, Lewis, Marion, Miller, Newton, Nodaway, Polk, Sullivan, Taney, Vernon, Worth and Wright Counties. V. W. Enslow, state hy. engr.

O., Cincinnati—Comrs. Hamilton Co. rejected bids Jan. 15, grading, curbing, 9 in. concrete paving 7,800 sq.yd. Lick Run Rd. from corp. line of Cincinnati to Boudinot Rd., 17 ft. $27,816. Will readvertise. E. A. Gast, Court House, co. surv.

O., Dayton—Montgomery Co., bids early in spring surface treating 55 mi. roads. $110,000. W. O. Pease, Dayton, co. surv.

Oklahoma—Feb. 2, by State Hy. Dept., Oklahoma City, grading, drainage structures 7.1 mi. State Hy. 14 north of Arapaho, 32 ft., Custer Co. $25 000—7 mi. State Hy. 15 south of Clinton, 32 ft., Custer Co. $25,000. C. L. Wilson, hy. engr.

Okla., Oklahoma City — See "Contracts Awarded."

Texas—G. Gilchrist, hy. engr., Austin, cancelled bids to have been opened Jan. 18, 1 in. 2 course limestone rock asphalt surfacing 11.367 mi. Hy. 72, De Witt Co., $65,000. J. S. Fenner, Cuero, resident engr. Noted Jan. 14.

Tex., Dimmitt—Feb. 1 by City, c/o A. M. Brownlee, mayor, curbing, guttering, rock asphalt and triple asphalt surface treating 17 500 sq.yd. J. F. Easter, Dimmitt, engr. Noted Dec. 31.

CONTRACTS AWARDED

California—C. H. Purcell, engr. State Hy. Comn., Sacramento, grading 11.5 mi. state hy. between Gold Run and Airport, Placer Co., to Lang Transportation Co., 5501 Santa Fe Ave., Los Angeles, $358,420. Noted Dec. 17.

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Streets and Roads (Continued)

Calif., Berkeley — F. E. Turner, city clk., curbing, guttering, sidewalks, grading, 7 in. concrete paving Spruce and Rose Sts., et al., to Central-California Roads Co., 2779 Poplar St., Oakland, $138,875.

Calif., Los Angeles—Bd. P. Wks., City Hall, improving La Brea Blvd., from Washington to Exposition Blvds., incl. 11,737 cu.yd. excav., 410 cu.yd. fill, 6,129 tons asphaltic concrete wearing surface (Willite) 14,799 tons asphaltic concrete base, 2,885 sq.ft. 8 in. and 6,553 sq.ft. 6 in. concrete pavement, sidewalks, curbing, guttering, sewers, traffic markers, manholes, to Southern California Roads Co., 2235 East 25th St., $115,455; Lankershim Blvd. from San Fernando Rd. to Burbank Blvd., incl. 9,060 cu.yd. excav., 1,640 cu.yd. fill, 6,120 tons asphaltic concrete wearing surface, 12,344 tons asphaltic concrete base, curbing, guttering, storm drains, to R. A. Wattson, 1026 McCadden Pl., $51,321.

Illinois—State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, to Arcole Constr. Co., Niles Center, paving Route 53, Sect. 531 Lake and Cook Counties, $255,573 — to Birt Bros. Co., Decatur, Route 153, Sect. 110 Washington Co. $127,649—to Central Eng. Co., 809 Putnam Bldg., Davenport, Ia., Route 71, Sect. 115 Lee and De Kalb Counties, $154,208—to C. J. Moritz, Inc., Effingham, Route 129, Sect. 107 Effingham Co. $90,701—to Henkel Constr. Co., Mason City, Ia., Route 47, Sect. 129 $78,187; Route 47, Sect. 136 $104,867, both Champaign Co.—to Harrison Eng. & Constr. Co., 506 Mutual Bldg., Kansas City, Mo., Route 142, Sect. 101 Wayne Co. $87,831; Route 142, Sect. 102 Hamilton Co. $138,606—to Hartman-Clark Bros., Peoria Life Insurance Bldg., Peoria, Route 127, Sect. 103-X Montgomery Co. $61,095—to McCarthy Impvt. Co., Kahl Bldg., Davenport, Ia., Route 80, Sect. 103, Jo Davies Co. $76,813; Route 133, Sect. 121 Douglas Co. $132,662; Route 133, Sect. 122, Douglas, Coles and Edgar Counties, $137,543—to John Mackler & Co., Chicago Heights, Route 59, Sect. 110 Cook and DuPage Counties $197,904—to Suburban Paving & Constr. Co. 625 North Kedzie Ave. Chicago, Route 65, Sect. 652 Kane, Kendall and DuPage Counties $121,018—to Universal Paving Co., Oak Park, Route 46, Sect. 464 Y-2, Cook Co. $3,591—to Harrelson & Johnson, Harrisburg, gravel surfacing Route 139, Sect. 101-A White Co., $116,109—to A. A. Davis Constr. Co., Cotton Exch. Bldg., Oklahoma City, Okla., grading, drainage structures Route 147, Sect. 116-A Johnson and Pulaski Counties, $57,621—to J. Kenney & Son, East St. Louis, Route 100, Sect. 124-A Calhoun Co. $87,430—to Littig Constr. Co., Davenport, Ia., Route 73, Sect. 109-A Stephenson Co. $59,129; Route 97, Sect. 142-A Knox and Fulton Counties $54,644—to E. H. Merrick, West McHenry, Route 23, Sect. 21-G McHenry Co. $10,405—to Wills Constr. Co., St. Louis, Mo., Route 54, Sect. 544-P $20,716; Route 54, Sect. 543-P $68,836, both DuPage Co. Grand total $2,243,138. Rejected bids paving Route 53, Sect. 532—Route 5, Sect. 6-S both Cook and DuPage Counties — Route 52, Sect. 522—Route 62, Sect. 117 — Route 21, Sect. H-R, all Cook Co.—Route 59, Sect. 106-X—Route 173, Sect. 136-S, both Lake Co.—Route 33, Sect. 6-X Jasper Co.—bridges on Route 121, Sects. 111-B and C, Logan Co.—Route 46, Sect. 262-BC, Cook Co. F. T. Sheets, hy. engr. Noted Sept. 3, Nov. 12 and Dec. 20.

Iowa—State Hy. Comn., Ames, to Sargent & Roth, Keystone, grading, drainage structures 8.525 mi. Rd. 25 Guthrie Co. $41,011—to O'Rourke Constr. Co., 1118 Mulberry St., Des Moines, grading, drainage structures, paving 2.917 mi. F.A.P. 98-D $81,571, 1.587 mi. Sect. 98-E $22,516, 4.043 mi. F.A.P. 284-D $73,734, all Winneshiek Co.—to Koss Constr. Co., Old Colony Bldg., Des Moines, 13.772 mi. Dallas Co. $204,336—to Booth & Olson, Inc., Sioux City, 6.19 mi. Kossuth Co. $90,436. Grand total $569,322. Noted Dec. 31.

Iowa—State Hy. Comn., Ames, grading, drainage structures 6.31 mi. Federal Aid Project, 334 Carroll Co., to J. A. Carlson Constr. Co. Omaha, Neb., $25,552; gravel surfacing 5.312 mi. Project 681 Humboldt Co., to Paul & Donnelly, Ft. Dodge, $2,307. Noted Jan. 14 under "Bridges."

Md., Baltimore—Bd. Awards, sheet asphalt paving 9,680 sq.yd. streets listed in Contr. 608, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St. $38,827.

Okla., Oklahoma City—Bd. Supervrs. Oklahoma Co., asphalt top surfacing 4 mi. Wheatland Rd., $40,000, and 2.6 mi. May Ave. $25,000, both 20 ft. wide, day labor, with county forces. J. F. Frazier, Court House, engr.

Texas—G. Gilchrist, state hy. engr. Austin, caliche base course surfacing 14.654 mi. hy. Hall Co., to J. Lee and E. A. Vilbig, Inc., 2517 Eakin St., Dallas, $48,777 est. $64,000—triple asphalt on caliche base course surface treating 10.507 mi. Upton Co., to McClure & Denison, Tecumcari, N.M. $50,917 est. $64,000, both 18 ft. wide—grading, drainage structures 2.84 mi. Brazos Co. to Valley Dredging Co., Donna, $38,054 est. $48,000—10.999 mi. Pecos Co., to Sanders & Hurlburt, Fort Stockton, $47,403 est. $66 000—11.434 mi. San Patricio Co., to E. G. Powell, Jacksonville, $50,236 est. $64,000—9.971 mi. Haskell Co., to G. F. Davis, Glazier, $21,864 est. $36 000, all foregoing 26 ft. wide. Grand total, $257,251. Noted Jan. 14.

Virginia—State Hy. Dpt. Richmond, grading, drainage structures, gravel surfacing 0.21 mi. Route 13, Project F-555-CBL Amherst Co., to James Cain & Co., Elkins, W. Va., $94,268—clearing, grubbing, grading, drainage structures surfacing 0.398 mi. Route 19, Project S-719-DB1 to Blythe Bros. Co., Charlotte, N. C., $36,447—3.8 mi. Rockingham Co., to Robert G. Lassiter Co. Norfolk, $21,447—3.09 mi. Rockingham Co., to Starkweather Constr. Co., Crozet, $23,973. Grand total $176,135. Noted Dec. 24.

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EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

Calif., San Francisco—California State Harbor Comn., Ferry Bldg., bulkhead building between Piers 38 and 40. $100,000. F. G. White, Ferry Bldg., engr.

Mass., Boston—See "Bridges."

BIDS ASKED

New Jersey—Feb. 9, at office Bd. Commerce & Navigation, State House, Trenton, dredging channel in Great Egg Harbor River beginning at point opposite Cape May Ave. at Mays Landing and extending downstream as far as funds will permit. $35,000 available. V. Gelineau, dir. and ch. engr.; adv. E. N.-R. Jan. 29.

CONTRACTS AWARDED

Ariz., Miami—City Council, installing drainage facilities, concrete spillways, to Driscoll Constr. Co., 220 South Main St., Pueblo, Colo., $95,000.

Calif., Long Beach—City Harbor Comn., constructing Berths 1 and 2, Pier A, Long Beach Outer Harbor, incl. grading, 1,200 lin.ft. 6 x 12 R.O.P. wall bumper, electric conduit and signal circuit, 3,457 lin.ft. 2 to 12-in. c.i. water pipe, 144 lin.ft. gas pipe, 1,280 lin.ft. triple fibre, 160 lin.ft. single triple fibre and 191 lin.ft. double virt. duct with concrete encasement, 826 lin.ft. 10 in. and 292 lin.ft. 6 in. vitr. sewer pipe, 125 lin.ft. 6 in. and 3,517 lin.ft. 4 in. drain tile, 4 fire hydrants, 162,932 sq.ft. decomposed granite and oil paving, 10,800 sq.ft. 7½ in. asphaltic concrete paving, 27,400 sq.ft. 4 in. decomposed granite and 2½ in. asphaltic concrete paving, 6,000 tons stone or ballast, 4,655 track ft. old rails, 1,000 track ft. second hand rails, 1,735 track ft. 128 lb. grooved girder, 6,466 track ft., new, 90, 80 and 75 lb. rail, 500 rail anchors, etc., to Sully-Miller Contg. Co., 1500 West 7th St., $65,185. City furnishes material.

Calif., Los Angeles—Bd. Supervs. Los Angeles County Flood Control Dist., levee construction on Pacoima Wash-Gunite from Arlets St. to San Fernando Rd., incl. 66,500 cu.yd. excav., 186,000 sq.ft. gunite facing slab, 207 sq.ft. manufacturing and placing pre-cast mattress, 9,900 sq.ft. concrete paving slab, 30 cu.yd. concrete cut-off and curtain walls, 5 cu.yd. miscellaneous rein.-con. 100 cu.yd. rock fill, 10,900 lb. placing metal, drainage culverts and gate complete, clearing right-of-way of all debris, to Ray Schweitzer & Co., 2475 East 9th St., $42,365.

Bond Elections

Coming Bond Elections

Light Plant—La Salle, Ill., election in spring, Burns & McDonnell Eng. Co., Kansas City, Mo., engrs. $150,000.

Bonds Voted

Waterworks — Illmo, Mo., Caldwell Eng. Co., Jacksonville, engrs. $45,000.

Improving Meta Street Cu-Off, incl. Widening Paving and Street Lighting System—Ventura, Calif. $100,000. State Hy. Comn. and Ventura County will pay $235,000. Total est. $335,000.

Drainage and Reclamation Work — Orange County Drainage Dist., Texas. E. Shutts & Sons, Lake Charles, La., engrs. $541,000.

School—Sioux Falls, S. Dak., $500,000.

Park Improvements—Hutchinson, Kan., $30,000.

Bonds Defeated

Replacing Wood Pipe Mains With C.I. Pipe, New 1 m.g. Storage Tank — Tooele, Utah, $50,000.

Sewer System—River Rouge, Mich. $248,000.

FEDERAL GOVERNMENT

PROPOSED WORK

Ala., Athens—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., soon takes bids 1 story, basement, brick, stone U. S. Post Office. $90,000. Noted May 28.

Ala., Auburn—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., soon takes bids 1 story, basement, brick, stone U. S. Post Office. $90,000. Noted Sept. 17.

Calif., San Pedro—FEDERAL BUILDING—Treas. Dpt. at office Sup. Archt., Wash., D. C., new building to house U. S. Post Office, custom department, immigration and public health service, steamboat inspection service, shipping commission and hydrographic office, north of Plaza Park. $750,000.

Calif., Ventura—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $200,000. Site purchased.

Ill., Chicago—DREDGING—U. S. Eng., 400,000 cu.yd. earth and removing 275,000 cu.yd. rock from Dresden Island Pool, Illinois Waterway.

Ill., Lake Forest—POST OFFICE—Treas. Dpt. at office Sup. Archt., bids about July or August, U. S. Post Office, Gates St. and Forest Av $160,000. Millman & Morphett, 104 Sou Michigan Ave., Chicago, archts. Noted Nov. 2

Ind., Rochester—FISH HATCHERY—Dpt. I terior, Wash., D. C., federal fish hatchery, Lake Manitou, $100,000.

La., Alexandria — HOSPITAL — Vet. Bu Arlington Bldg., Wash., D. C., sketches rein.-con brick, stone hospital addition. $1,000,000.

La., Houma—CANAL—U. S. Eng., Wash D. C., preliminary plans 16.5 mi. waterway, 5 f deep, 40 ft. wide, from Intracoastal Canal t Bayou Dulac. $45,000.

Mass., Adams—POST OFFICE—Treas. Dpt at office Sup. Archt., Wash., D. C., 1 story basement, brick post office. $85,000.

Mass., Presque Isle—POST OFFICE—Trea Dpt. at office Sup. Archt., plans U. S. Post Offic

Mass., Turners Falls—POST OFFICE—Trea Dpt. at office Sup. Archt., 1 story, basemen brick post office. $85,000.

Montana—BRIDGE—Pub. Rds., Missoula, 1 span 400 ft. steel, concrete bridge on Yellowstone Trail near Cyr. $65,000. W. H. Lynch Missoula, dist. engr.

N. J., Bloomfield — POST OFFICE — Trea Dpt. at office Sup. Archt., Wash., D. C., revised sketches by W. Orrin Bartlett, 11 Raymond Blvd., Newark, 1 story, basement, brick, steel Bloomfield Ave. and Municipal Plaza. $200,000. J. A. Wetmore, c/o owner, superv. archt Noted Sept. 17.

N. J., Fort Hancock—THEATRE—Con. Q. M Fort Hancock, rejected bids general contract 1 story, basement, brick, steel. $150,000. Private plans. Noted Dec. 3.

N. J., Paterson—POST OFFICE—Treas. Dpt at office Sup. Archt., Wash., D. C., revised sketches by F. W. Wentworth, 140 Market St 2 story, basement, brick, steel, Ramapo Ave Market and Staight Sts. $470,000. J. A. Wetmore, c/o owner, assoc. archt. Noted Oct. 1

N. J., West New York—POST OFFICE—Trea Dpt. at office Sup. Archt., Wash., D. C., sketches by P. P. Cayot, 130 West 40th St., New York and Bowden, Russell & Garland, assoc. archts. 19 West 40th St., New York, 2 story, basement brick, steel, Van Buren Pl., Madison and 17th Sts. $375,000. **Maturity late in summer.** Noted Jan. 7.

N. Y., Amsterdam—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office and Federal Building. **Maturity indefinite.**

N. Y., Catskill—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office and Federal Building. $110,000. Site selected and being acquired.

N. Y., LeRoy—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office and Federal Building. $95,000. Site being acquired.

N. Y., Malone—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office and Federal Building. $175,000. Site selected and being acquired.

N. Y., Port Covington—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office and Federal Building. $56,000. Site being acquired.

N. Y., Seneca Falls—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office and Federal Building. $115,000. Site selected and being acquired.

O., Dayton—HANGARS, etc.—Con. Q.M., Wright Field, soon takes bids 2 hangar buildings $143,000, headquarters building $60,000, recliaming plant, $15,000, concrete aprons $51,000, at Wright Field.

Oregon—DIKES—U. S. Eng., Portland, 6,100 lin.ft. piling dikes in Columbia River, below Portland, incl. 195,871 lin.ft. piling, 79,558 lin.ft. lumber, 52,780 cu.yd. stone, 36,366 lb. hardware.

Pa., Wilkes-Barre — POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., 3 story, gray stone, on old found., South Main St. $395,000.

Tex., San Antonio—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by I. D. Porter, Federal Bldg., Dallas, and takes bids within 60 days 3 story, basement, brick, steel, North Alamo St. $1,400,000. J. A. Wetmore, acting superv. archt. Site being cleared by day labor. Noted July 2.

Vt., Middlebury—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., 1 story, basement, brick, steel, post office. $90,000.

Vt., White River Junction—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., 2 story, basement, brick, stone U. S. Post Office. $125,000.

Va., Norfolk—HOSPITAL—Treas. Dpt. at office Sup. Archt., Wash., D. C., soon takes bids found. for addition to U. S. Public Health Service Hospital, Hampton Blvd. Total cost $850,000. Bids will be received about Feb. 1, rest of work on buildings.

Wash., Wapato—PUMPING UNIT—Bureau Reclamation revised plans constructing Pumping Unit 2, on Wapato Project. $360,000 appropriated. D. Redman, project engr.

Wash., Yakima—IRRIGATION PROJECT—Bureau Reclamation surveys Yakima-Benton Irrigation Project, incl. 101 mi. power ditch to carry 3,000 sq.ft. water, to half-circle Yakima and Rosa irrigation canal, also constructing 30,000 hp. power plant at Union Gap. W. L. Rowe, reclamation engr.

BIDS ASKED

Ark., Hot Springs—HOSPITAL—Feb. 2 (extended date), at office Con. Q. M., new hospital buildings, utilities for Army and Navy General Hospital. $1,500,000. Noted Dec. 10.

Calif., Sacramento — POST OFFICE, etc. — Mar. 2, by Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing (except elevators) U. S. Post Office Court House; adv. E. N.-R. Jan. 28. Noted Mar. 19.

Federal Government (Continued)

Calif., Sunnyvale—WATER DISTRIBUTING SYSTEM, etc.—Spec. 6705—Feb. 3, by Yards & Docks, Navy Dpt., Wash., D. C., water distributing and sewerage systems at Naval Air Station.

Colo., Monte Vista—POST OFFICE—Feb. 16, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $120,750.

D. C., Wash.—ARCH CULVERT—Feb. 4, at office Con. Q.M., Bolling Field, 5 ft. arch culvert 810 ft. in length; adv. E. N.-R. Jan. 28.

D. C., Wash.—TEST BORINGS—Feb. 27, by Treas. Dpt. at office Sup. Archt., Wash., D. C., test borings for apex.

Ga., Macon—EXTENDING, etc.—Feb. 16, by Treas. Dpt. at office Sup. Archt., Wash., D. C., extending, remodeling (except elevators) U. S. Post Office; adv., E. N.-R. Jan. 28.

Ind., Terre Haute—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., taking bids 3 story, basement, 109 x 221 ft., brick, steel U. S. Post Office. $600,000. Miller & Yeager, 819 Ohio St., archts. Noted Jan. 21.

Md., Cumberland—POST OFFICE, etc.—Feb. 15, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office and elevator in same.

Mass., Boston—HAMMER—Feb. 2, by Supplies & Accounts, Navy Dpt., Wash., D. C., 1 power drop forging hammer, Schedule 7275.

Mass., Brockton—POST OFFICE—Feb. 5, by Treas. Dpt. at office Sup. Archt., Wash., D. C., clearing additional land for site for new U. S. Post Office. **Noted May 21.**

Miss., Greenville—CRAWLER WAGONS, etc. —Feb. 2, by U. S. Eng., Vicksburg, 7 yd. bottom dump crawler wagons, f.o.b. Greenville.

N. Y., Elmira—EXTENDING, etc.—Feb. 4, by Treas. Dpt. at office Sup. Archt., Wash., D. C., extending, remodeling U. S. Post Office.

N. Y., Mineola—GYMNASIUM—Feb. 16, by Con. Q. M., Mitchell Field, gymnasium, $40,000.

Texas—DREDGING—Feb. 17, by U. S. Eng., Galveston, 148,000 cu.yd. material from Double Bayou Channel to Anahuac Channel. Noted Jan. 14.

Tex., Beaumont—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about Mar. 1, 2 story, U. S. Post Office and Federal Building. $686,000. F. W. Steinman and G. Goodhue, Beaumont, archts. H. M. Sanford, Esperson Bldg., Houston, consult. engr. Noted Sept. 3.

Va., Langley Field—QUARTERS—Feb. 19, by Con. Q. M. Langley Field, 16 field officers quarters; adv. E. N.-R. Jan. 29.

Washington—DREDGING—Feb. 3, by U. S. Eng., Portland, Ore., 310 lin.ft. pile dike in Cowlitz River.

Wyo., Sheridan—HOSPITAL—Feb. 23, by Vet. Bu., Arlington Bldg., Wash., D. C., addition to Building 9, attendant's quarters, incl. roads, walks, at U. S. Veterans' Hospital. Noted Oct. 8.

CONTRACTS AWARDED

Alabama — FOUNDATION — U. S. Eng., Mobile, drilling for subsurface investigation of foundation of dam site in Warrior River, to Mott Core Drilling Co., Huntington, W. Va., at $3.15. Noted Jan. 14.

Calif., Long Beach—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Lindgren & Swinerton, 523 West 6th St., Los Angeles. $392,000. Noted Dec. 10.

Calif., Sacramento—DREDGING—U. S. Eng., 3,111,000 cu.yd. in San Joaquin River, to Longview Dredging & Constr. Co., Longview, Wash., $225,547. Noted Nov. 19.

Calif., San Francisco — HOSPITAL — Treas. Dpt. at office Sup. Archt., Wash., D. C., additional officers' quarters at U. S. Marine Hospital, to Clinton Constr. Co., 923 Folcon St., $138,000. Noted Dec. 10.

Fla., Miami—DREDGING—U. S. Eng., Jacksonville, 1,175,000 cu.yd. from Miami River, to Standard Dredging Co., 233 Bway., New York, $517,000. Noted Dec. 3.

Ga., Americus—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., extending and remodeling U. S. Post Office, to Murphey Pound, Columbus, $84,300. Noted Dec. 24.

Ga., Atlanta—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., superstructure Indiana limestone U. S. Post Office and Court House, to Great Lakes Constr. Co., 333 North Michigan Ave., Chicago, Ill., $1,534,351. Noted Jan. 7.

Ind., Connorsville — POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Dunlap & Co., Columbus, $51,420. Noted Dec. 24.

Ind., Vincennes — APPROACHES — George Rogers Clark Sesquicentennial Comn., 30 x 100 ft. rein.-con., stone faced approaches to George Rogers Clark Memorial Bridge, to Premier Constr. Co., 1025 Lemcke Bldg., Indianapolis, $116,241. Est. $140,000. Noted Nov. 26.

Kan., Topeka—ELEVATOR PLANT—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator plant U. S. Post Office, to Otis Elevator Co., 810 18th St. N. W., Wash., D. C., $33,288. Noted Dec. 10.

Kan., Topeka—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office and Court House, to J. I. Barnes, Logansport, Ind., $608,900. Noted Dec. 10.

Louisiana—DREDGING—U. S. Eng., 1st New Orleans Dist., Poland and Dauphine Sts., New Orleans, 6,554,100 cu.yd. from Louisiana-Texas Intracoastal Waterway, to Standard Dredging Co., 233 Bway., New York, $412,252. Noted Dec. 10.

Louisiana—REVETMENT—U. S. Eng., Prytania St. and River Front, New Orleans, to Concrete Constr. Co., New Orleans, 1,010 lin.ft. revetment on LaReusite-Alliance Levee, 2nd New Orleans Levee Dist. at $2.17 per lin.ft., 1,430 lin.ft. on Pecan Grove Levee $0.82; 1,010 lin.ft. on Story Levee $1.24; to J. M. Fraites, Inc., Canal Bank Bldg., New Orleans, 1,240 lin.ft. Junior Levee-Celeste Levee $1.945, 2,230 lin.ft. Monsecour Levee $0.78; to A. A. Buras, New Orleans, 5,661 lin.ft. on Triumph Levee at $1.45 per ft.; to A. L. Walker, Memphis, Tenn., 1,000 lin.ft. Fairview Levee, $0.92, 1,450 lin.ft. Collette Levee $0.85. Noted Nov. 5.

Minn., Owatonna — POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office, to Tapager Constr. Co., Albert Lea, $5,465 (90 days). Noted Dec. 31.

Mo., Kansas City—PONTOONS—U. S. Eng., 707 Postal Telegraph Bldg., 20 pontoons, to Chicago Bridge & Iron Co., 37 West Van Buren St., Chicago, Ill., $43,730. Noted Dec. 24.

N. J., Lakehurst—CELL SHOP—Spec. 6455—Yards & Docks, Navy Dpt., Wash., D. C., general contract 1 story, basement, gas cell shop and storage building, brick, steel, Naval Air Station, to H. J. Homan Co., 18th and Cherry Sts., Phila., Pa. Est. $200,000. Noted Jan. 14.

N. Y., Elmira—ELEVATOR HOISTWAY—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator hoistway, to Wright & Kremers, Inc., Niagara Falls, $5,000.

North Carolina—DREDGING—U. S. Eng., Wilmington, dredging waterway connecting Core Sound and Beaufort Harbor, to C. Walker Hodges Dredging Co., New Bern, at $0.176. Noted Nov. 18.

O., Chillicothe—HOSPITAL—Vet. Bu., Arlington Bldg., Wash., D. C., 2 and 3 story, basement, brick, stone, rein.-con., U. S. Veterans' Hospital, to H. G. Christman, South Bend, Ind. Est. $600,000. Noted Oct. 22.

O., Gallipolis—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Skene-McAplin Constr. Co., Point Pleasant, W. Va., $1,625. Noted Dec. 24.

O., Springfield—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., demolition, excavation and foundations for U. S. Post Office, to B-W Constr. Co., 720 North Wabash Ave., Chicago, Ill., $18,300. Noted Dec. 31.

Pa., Coatesville — HOSPITAL — Vet. Bu., Arlington Bldg., Wash., D. C., additional buildings and altering U. S. Veterans' Hospital, to Sinclair & Grigg, 1518 Walnut St., Phila., Pa., $688,940.

South Carolina — DREDGING — U. S. Eng., Charleston, 89,948 cu.yd. in waterway, Charleston to Winejah Bay, to Merritt Dredging Co., Jacksonville, Fla., $13,680. Noted Dec. 17.

S. C., Ezrell—MONUMENT—Con. Q. M., Fort Bragg, N. C., monument additions on Cowpens Battlefield, to G. P. Donnellan, 325 Walton Bldg., Atlanta, Ga., $2,005. Noted Dec. 10.

Tex., Galveston — FEDERAL BUILDING — Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Federal Building, to J. J. Fritch, 4993 Mission Ave., Dallas, $59,485. Noted Nov. 12.

Tex., Texas City—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to A. Blair, Montgomery, Ala., $70,700. Noted Dec. 10.

Utah, Salt Lake City—HEATING—Vet. Bu., Arlington Bldg., Wash., D. C., heating equipment in U. S. Veterans' Hospital, to A. H. Walsh Plumbing Co., 1120 2nd Ave., $9,800. Noted Oct. 10.

Va., Langley Field—ADMINISTRATON—Con. Q. M., Monroe, administration building at Langley Field, to Virginia Eng. Co., Newport News, $165,984. Noted Dec. 17.

Wash., Prosser—CANAL—Bureau Reclamation, Dpt. Interior, Yakima, Wash., modifying Prosser dam, building Prosser power Canal and power house building part Kennewick Div. Yakima Reclamation. Project, to General Constr. Co., 3840 Iowa Ave., Seattle. $131,386. Noted Dec. 10.

Wyo., Newcastle—FEDERAL BUILDING—Treas. Dpt. at office Sup. Archt., Wash., D. C., 1 story, basement, 42 x 78 ft., brick, steel, to J. W. Brennen Co., 132 North Johnson Ave., Pocatello, Idaho, $61,800. Noted Dec. 10.

Wyo., Sheridan—PUMPING EQUIPMENT—Vet. Bu., Arlington Bldg., Wash., D. C., rehabilitating pumping equipment at Veterans' Hospital, to General Electric Co., 650 17th St., Denver, Colo., $2,780.

FEDERAL POWER COMMISSION

Applications for License and Permits

Licenses

1184—California Oregon Power Co., 58 Sutter St., San Francisco, Calif., wants license partly constructed transmission line in Klamath Co., Oregon, and Modoc Co., Calif.

1185—F. Bahover, Baranof, Alaska, wants license constructed power project on Baranof River, 1st Judicial Div., Alaska, in Tongass Natl. Forest.

1186—W. H. Farrington, 306 Dekum Bldg., Portland, Ore., wants license power project on Grays Creek in Hood River, Ore., affecting land within Mount Hood Natl. Forest.

1187—Sierra and San Francisco Power Co., San Francisco, Calif., wants license transmission line affecting Indian lands in Tuolumne Co.

1188—Western Pacific R.R. Co., Mills Bldg., San Francisco, Calif., wants license transmission line affecting land within Lassen Natl. Forest, Lassen Co.

1189—M. Olsen, Baranof, Alaska, wants license power project on Baranof River, 1st Judicial Div., Alaska, within Tongass Natl. Forest.

RAILWAYS

PROPOSED WORK

Michigan — Grand Trunk Western Ry., J. A Heaman, ch. engr., Detroit, new switching yards at Henry St. and relaying with heavier rail on track to car ferry dock at McCracken Ave., Muskegon, $75,000.

New Jersey—Bd. City Comrs., City Hall, Newark, regrading, constructing new crossings for surface railway, Sect. 6, Newark. $300,000.

GRADE CROSSINGS

PROPOSED WORK

New York—New York Central R.R. Co., F B. Freeman, ch. engr., 466 Lexington Ave., New York, eliminating grade separation at Cheektowaga and Lancaster. To exceed $25,000. **Maturity soon.**

New York—Staten Island Rapid Transit Co., Pier 6, St. George, plans in progress eliminating grade crossings at Old Town Rd., Clove, Grasmere and Parkinson Aves., at Grasmere: Burcher, Cromwell, Garretson, Sea View, Liberty and Buell Aves., at Dongan Hills. $1,745,000.

N. Y., Albany—Delaware & Hudson R.R. Co., J. MacMartin, ch. engr., Albany, soon takes bids eliminating grade separation by extending new unnamed street over tracks. To exceed $25,000. Pub. Serv. Comn. approved detailed plans.

N. Y., Brighton—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, soon takes bids eliminating Butts Crossing. Specifications and estimates approved by Pub. Serv. Comns. $54,700. Western Union Telegraph Co., 60 Hudson St., New York, will alter telegraph lines by day labor. Noted Dec. 24.

N. Y., Brooklyn—Long Island R.R. Co., A. C. Watson, ch. engr., Pennsylvania Sta., extending 51st St. over tracks to eliminate grade crossing. To exceed $40,000. Project will wait outcome of litigation.

N. Y., Brooklyn—Long Island R.R. Co., A. C. Watson, ch. engr., Pennsylvania Sta., New York, and New York Rapid Transit Co. (B.M.T. lines), 385 Flatbush Ave., eliminating grade crossing by carrying 13th Ave. over tracks. $200,000. Project ordered, general plans approved, waiting approval detailed plans.

N. Y., Erwin—Erie R.R. Co., G. S. Fanning, ch. engr., 101 Prospect Ave. S. W., Cleveland, O., soon takes bids on revised plans eliminating Kelley or Gee Crossing, Steuben Co. $185,000. Pub. Serv. Comn. approved revised plans. Noted Sept. 10.

N. Y., Far Rockaway—Long Island R.R. Co., A. C. Watson, ch. engr., Pennsylvania Station, New York, eliminating grade crossings at Smith and Beach 35th Sts., McNeil, Carlton, Mott, Sea View, Hollywood, Cornaga and Park Aves. $2,185,000. Work ordered by Pub. Serv. Comn. and general plans approved.

N. Y., Forest Hills—Long Island R.R. Co., A. C. Watson, ch. engr., Pennsylvania Sta., New York, detailed plans approved by Transit Comn. for eliminating grade crossing by carrying 202nd St. over tracks. $173,000.

N. Y., Forest Hills—Long Island R.R. Co., A. C. Watson, ch. engr., Pennsylvania Sta., New York, eliminating grade crossing at Trotting Course Lane. $81,000. Transit Comn. ordered elimination, plans submitted and returned for correction.

N. Y., Hamburg—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., ordered to go ahead eliminating grade crossing on Athol Springs and Hamburg Highways. Reconsideration petition denied by Pub. Serv. Comn. Noted Oct. 29.

N. Y., Reading—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, eliminating grade crossing at Watkins-Yates Co. line, Schuyler Co. Pub. Serv. Comn. approved revised plans and estimates. $106,000. Noted July 3.

N. Y., Rotterdam—Boston & Maine R.R. Co., W. J. Backes, ch. engr., Boston, Mass., soon takes bids eliminating crossing at Rotterdam Junction and Pattersonville Hy. $154,000. Pub. Serv. Comn. approved plans and estimates. Noted Nov. 26.

N. Y., West Seneca—Pennsylvania R.R. Co., T. J. Skillman, ch. engr., Broad St. Sta., Phila., Pa., eliminating grade separation Erie Co. Pub. Serv. Comn. directed preparation of maps and appraisal of necessary land.

N. Y., Whitehall—Delaware & Hudson R.R. Co., J. MacMartin, ch. engr., Albany, has been directed by Pub. Serv. Comn. to acquire land and easements for grade crossing elimination in various streets.

Utah., Cache Junction—Oregon Short Line R.R. Co., subsidiary Union Pacific System, 1416 Dodge St., Omaha, Neb., H. C. Mann, ch. engr., and Cache Co. plan concrete, steel overpass over Oregon Short Line R.R. near here. $25,000. Work will be under supervision State Hy. Comn., Salt Lake City, H. S. Kerr, hy. engr.

CONTRACTS AWARDED

N. Y., Phelps—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, digging test holes and driving test piling for grade crossing elimination south of Junius Station, to Walsh Constr. Co., Herald Bldg., Syracuse, at cost plus 10%.

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PIERS AND WHARVES

PROPOSED WORK

Calif., Long Beach—PIER SHED—City, 2 story, mezzanine, 82 x 470 ft., steel pier shed. $70,000. R. G. McGlone, City Harbor, engr.

Calif., San Francisco — PIER SHED — California State Harbor Comn, Ferry Bldg., pier shed at Pier 42. $280,000. F. G. White, Ferry Bldg. engr.

Calif., San Francisco—WHARF, etc.—California State Harbor Comn., Ferry Bldg., additions to sub-structure and connecting wharf between Piers 40 and 42. $200,000. F. G. White, Ferry Bldg., engr.

Calif., San Francisco—WHARF—California State Harbor Comn., Ferry Bldg., timber wharf, foot of 3rd St. $300,000. F. G. White, Ferry Bldg., engr.

Calif., San Francisco—WHARF—California State Harbor Comn., Ferry Bldg., 900 ft. timber wharf at Islais Creek. $325,000. F. G. White, Ferry Bldg., engr.

BIDS ASKED

Calif., Oakland—PIER SHED—Feb. 8, by G. B. Hegardt, secy. City Port Comn., 360 ft. rein.-con. extension for Shed 2, steel rolling doors, Outer Harbor. Noted Dec. 10.

AIRPORTS

PROPOSED WORK

Ariz., Tucson—City preliminary plans 35 x 150 ft. welded steel with sheet iron covering municipal airport hangar for C. Mayse, lessee of airport. **$40,000.** G. T. Grove, city engr.

Mass., Revere—City, Dpt. P. Wks., airport at Mueller Field.

CONTRACTS AWARDED

Okla., Oklahoma City—M. Peshek, Jr., city clk., airport hangar, to Secor & James, Hales Bldg., $24,990. Est. $29,500.

GRAIN ELEVATORS

PROPOSED WORK

Ind., Lapel—GRAIN ELEVATOR and CORN CRIB—Standard Grain Co., concrete grain elevator and corn crib. **Maturity in spring.**

POWER AND LIGHTING

PROPOSED WORK

Arkansas—Mississippi Valley Power Co., Fort Smith, W. S. Van Sickle, vice-pres. and mgr., rebuilding 3 mi. 33,000 volt line running out of Ft. Smith, installing additional regulators on 2 principal Fort Smith substations, the distribution system will be rebuilt or partially rebuilt in Fort Smith, South Fort Smith, Van Buren, Charleston, Ratcliffe, Alma, Dyar, Lamar and Ozark.

Calif., Los Angeles—See "Bridges."

Kan., Emporia—City plans, surveys, specifications in progress gas distribution system. $225,000. Burns & McDonnell Eng. Co., 400 Interstate Bldg., Kansas City, Mo., engrs.

Ia., Mason City—Peoples Gas & Electric Co., F. J. Hanlon, pres., 22 Second St. N. W., gas mains, light and power plant improvements, replacements, rebuilding transformer stations. $496,000.

New York—Interborough Rapid Transit Co., 165 Bway., installing signal equipment on Bway.-West Side Lines, Dyckman St. to South Ferry to portal east of 149th St. and 3rd Ave.; automatic signal and train tripping devices on Lexington Ave. East Side Line, from portal (157th St.) to South Ferry, 125th St. to portal (Whitlock Ave.) to exceed $550,000, both New York; and on Nostrand Ave. from Eastern Parkway to Flatbush Ave., Brooklyn. Work ordered by Transit Comn., but deferred until other signal projects are completed.

New York—New York Central Electric Co., 80 East St., Rochester, electric distribution systems in Howard and Jasper. Pub. Serv. Comn. granted permit.

N. Y., Brooklyn—Interborough Rapid Transit Co., 165 Bway., New York, plans equipping with automatic signalling and train tripping devices on line from Borough Hall to portal east of Utica Ave. To exceed $25,000. Transit Comn. ordered work, project will be deferred until completion of other work.

N. Y., Brooklyn—Interborough Rapid Transit Co., 165 Bway., New York, automatic signal and train tripping devices on local tracks Livonia Avenue Line from portal to New Lots Ave. Company will soon make purchases. To exceed $150,000. Transit Comn. ordered work.

N. Y., Brooklyn—New York Rapid Transit Co. (B. M. T. Lines), 385 Flatbush Ave., plans installing signal and train tripping equipment on 5th Ave. line from Navy to 65th Sts. To exceed $300,000. Transit Comn. ordered and company will soon begin purchases for equipment.

N. Y., Catherine—Elmira Water, Light and Railroad Co., Hulett Bldg., Elmira, applied to Pub. Serv. Comn. for permission to construct gas distribution system.

N. Y., Highlands — Central Hudson Gas & Electric Corp., South Rd., Poughkeepsie, 1¼ in. steel main to be laid from 20 to 30 in. below ground to connect company mains to village line. Pub. Serv. Comn. authorized construction.

N. Y., New York—Interborough Rapid Transit Co., 165 Bway., installing automatic signal equipment for 143rd Street Extension. To exceed $100,000. Project will be deferred for more urgent projects. Transit Comn. ordered work.

N. Y., Walden—Wallkill Valley Gas Corp., gas distribution system, Orange Co. Pub. Serv. Comn. granted permit.

N. Y., Wayne — Donovan Constr. Co., 800 Franklin St., Watertown, petitioning Pub. Serv. Comn. to allow construction electric distribution system.

BIDS ASKED

La., Morgan City—See "Equipment."

CONTRACTS AWARDED

Calif., Glendale—City will install ornamental lighting system in Brand Blvd., from Arden Blvd. to South City Limits, incl., 508 fluted standards of special city design, day labor, $126,250. City soon takes bids on materials.

Oregon and Washington—Northwestern Electric Co., Pub. Serv. Bldg., Portland, Ore., 114,000 kw. cable line and submarine cable under Columbia River and Arizona Slough, own forces. $275,000.

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PARKS AND SPORTS

PROPOSED WORK

Conn., New London—A. M. Woods Assoc., c/o Payne & Keefe, archts., 231 State St., preparing plans and soon takes bids 2 story, 30 x 90 ft., stone field house, Montaul Ave. $25,000.

Ill., Henry—See "Clubs."

Mo., St. Louis—Bd. P. Serv., City Hall, soon takes new bids on revised plans concrete, glass, steel greenhouse, boiler room .and greenhouse heating system in Forest Park, 5800 Oakland Ave. Former bids rejected.

N. Y., Brooklyn—Tilyou Realty Corp., Steeplechase Park, bids after Feb. 1, general contract concrete swimming pool, Surf Ave. and West 19th St. P. F. Meyer, 1530 West 3rd St., archt. Noted Jan. 7.

N. Y., New York—Dpt. Parks, Arsenal Bldg., Central Park, playground, Morris Ave. and 166th St. $100,000. Action deferred due to temporary financial embarrassment of city.

O., Cleveland — City, preliminary studies landscaping, grading, walks, irrigation system, tree planting and sodding. $50,000. T. Joyce, City Hall, park engr.

Pa., Pittsburgh—See "Schools."

Pa., Uniontown—Summit Hotel Co., L. L. Heyn, mgr., Uniontown, resort hotel, bath house, brick, alternate for tile cinder block back up, rein.-con swimming pool 3 to 10 ft. deep, near here. $25,000. **Maturity soon.** W. A. Becker, 1006 Mercantile Lib. Bldg., Cincinnati, O., engr.

Tex., San Antonio—State, c/o Alamo Acquisition Bd., C. Sevier, Corpus Christi, plans by H. E. Kincaid, and Bartholomew & Associates, archts. and engrs., and soon takes bids construction State Park on "The Alamo" (Cradle of Texas Liberty), grounds, incl. reconstructing complete park around Alamo, street widening to 74 ft., fountains, landscaping, general beautification. Site purchased for $220,000.

Man., Winnipeg—Osborne Stadium Co., Whitehall and Colony Sts., plans by Pratt & Ross, archts. and engrs., 710 Electric Railway Chambers, 300 x 400 ft. sports stadium, incl. nonglare floodlight system, to permit rugby, football, lacrosse, played at night, covered stand, with seats, also other buildings. $60,000.

Ont., Toronto—City plans by M. Brown, Confederation Life Bldg., and soon takes bids concrete, brick, bathing station, Kippendavil Ave. $25,000.

Ont., Toronto—City plans by George, Moorehouse & King, 1123 Bay St., and soon takes bids concrete swimming pool, purification and heating apparatus, brick, concrete, stone dressing rooms, for bathing station, Eglinton Park, North Toronto. $85,000.

BIDS ASKED

Mass., Brockton—Feb. 11, by Commonwealth of Massachusetts, Dpt. Agriculture, 2 story, timber exhibition booths at Fair Grounds. $50,000. J. H. Ritchie & Associates, 250 Stuart St., **Boston**, archts. Noted Nov. 5.

CONTRACTS AWARDED

Conn., Bristol—City, Engineering Dpt., City Hall, constructing ½ mi. race track at Bristol Fair Grounds, Stafford and Farmington Aves. to F. P. Helming, 46 School St.; grandstands, barns and fencing, to J. E. Collins, 170 Curtiss St. Est. $25,000.

HEATING AND VENTILATING

PROPOSED WORK

N. Y., New York—S. W. Katz, archt., 233 Bway., bids latter part February, fire tower, elevator, plumbing, mechanical equipment, 1033 1st Ave., for Sutton Studios, 233 Bway. Est. $40,000. Noted Jan. 14.

CONTRACTS AWARDED

Ia., Iowa City—Iowa State University, c/o State Bd. Educ., Des Moines, to Murray Iron Wks., Burlington, boiler unit for heating and power plant building $9,530, breeching $402, feed water regulator $168; to Foster Wheeler Corp., Roosevelt Ave., Carteret, N. J., superheater $2,540; to Vulcan Soot Cleaner Co., W. H. Bixby, agt., 1004 Hubbell Bldg., Moines, soot blower, $750; to W. H. Triller 2544 Forest St., Kansas City, Mo., bolier ting, $2,560; to American Eng. Co., Aram and Cumberland Sts., Phila., Pa., stoker $18, Grand total $34,200. Noted Oct. 1.

N. Y., Dongan Hills—J. G. W. Greeff, Hospitals, Municipal Bldg., New York, instal steam heating system from power house to tages A. B. C, D and E, at Seaview Hospital R. J. McKinnon Contg. Co., 3733 Willis A New York, $20,676. Noted Dec. 10.

N. Y., Mount Vernon—Gristede Bros., 1 Park Ave., New York, refrigeration equipn for distribution station, to Voss Ice Mach Wks., 242 East 122nd St.; heating, to Schneider Co., 492 East 163rd St. Noted Dec. 3, under "Warehouses."

UNCLASSIFIED

PROPOSED WORK

N. Y., Brooklyn—STABLES—Teevan Ri Academy, Caton Pl. and East 8th St., bids in April, general and separate contracts 2 st basement, 82 x 100 ft. stables, East 88th and Caton Pl. E. Falkenhainer, 1958 E 31st St., archt. Noted Jan. 7.

Pa., Wilkes-Barre—TELEPHONE IMPROVEMENTS—Bell Telephone Co. of Pennsylva South Main St., 21,000 ft. new storm resist aerial telephone cable, 6,438 ft. new underground cable during 1932. $40,000. R. Mill dist. mgr.

R. I., Wickford—POLICE BARRACKS—State Dpt. State Police, New Industrial Trust Bld Providence, plans by Jackson, Robertson & Adams, Turks Head Bldg., Providence, 2 story, brick, west side of 4 lane Post Rd. $50,000. Noted Jan. 7.

BIDS ASKED

Ill., National City (East St. Louis P. O.) STOCK YARDS—See "Contracts Awarded."

New York—TRACK BONDING—Feb. 16, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, furnishing installing d.c. connections and track bonding, for part Independent System of City-owned Rapid Transit R.R., extending from Hudson Terminal, Manhattan Boro., to Jay St., and from Concord to Jay Sts., to Avenue C and Gravesend Aves., Brooklyn Boro.

CONTRACTS AWARDED

Ill., Chicago—DRIERS and DUST COLLECTING SYSTEM—Bd. P. Wks., City Hall, furnishing, installing new driers and dust collecting system at Municipal Asphalt Plant 3, 9038 South State St., to G. W. Dreher Co., 111 West Washington St., $84,752.

Ill., National City (East St. Louis P. O.)—STOCK YARDS—National Stock Yards Co., J. Baries, genl. mgr., additions to stock yards, incl. 1 story, 400 x 600 ft. rein.-con. sheep house, 2 story, 50 x 75 ft. brick, concrete time office, day labor. Private plans.

Mass., Cambridge—OIL STORAGE TANKS—Lever Bros. Co., 164 Bway., Boston, 5 new oil storage tanks at plant, to Temple & Crane, Inc., 80 Federal St., Boston. Work on founds and excavation started.

N. Y., Brooklyn — STATION FINISH — Bd Transportation, J. H. Delaney, chn., 250 Hudson St., New York, constructing station finish for Smith-9th St. and 4th Ave. Stations Rapid Transit R.R., to W. W. Constr. Co., 15 East 40th St., New York, $335,026. Noted Dec. 24.

MATERIALS

PROPOSED WORK

CEMENT—**Chicago, Ill.**—Bd. Comrs. Cook **Co., County Bldg., soon takes new bids 750,000** bbl. Portland cement, 20,000 bbl. high early strength cement for roads and bridges during 1932 in Chicago and suburbs. Former bids rejected. G. A. Quinlan, co. supt. hys.

CEMENT SAND, etc.—**Cleveland, O.**—City, A. J. Preusser, ch. clk., City Hall, preparing quantities materials for street repairs, incl. cement, sand, slag, crushed stone, paving brick, road oil, ready mixed concrete, granite, block and curbing, sandstone curbing, asphalt, etc. $150,000.

STONE GRAVEL, etc.—**Cleveland, O.**—Bd Comrs. Cuyahoga Co., F. Stacel, clk. Road Repair Dpt., preparing quantities materials for road repairs, incl. stone, gravel, slag, cement paving brick, asphalt, etc. $75,000.

BIDS ASKED

TRACTOR, GRADER, etc.—**Lompoc, Calif.**—Feb. 1, by G. Saunders, city clk., Caterpillar No 25 tractor with standard equipment, full set **street plates,** also one caterpillar leaning wheel grader with 8 ft. blade equipped with scarifier **attachment.**

STONE, CEMENT, OIL, etc.—**Chicago, Ill.**—City, Dpt. P. Wks., City Hall, bids about Feb 5, requirements for 1932 for Bureau of Streets, incl. 85,000 yd. crushed stone, 600,000 No. 1 repressed paving block, 6,000 yd. gravel, 6,000 yd. Torpedo sand, 12,000 bbl. portland cement, 75,000 yd. asphalt sand, 750,000 gal. fuel oil, 500,000 gal. flux oil, 15,000 tons asphalt, 10,000 tons limestone dust, 2,000,000 gal. gasoline, 500,000 gal. fine tar delivered and applied.

Materials (Continued)

RIP RAP — **Iowa** — Feb. 2, by State Hy. Comn., **Ames**, 8,000 tons riprap, f.o.b. cars producers quarry for 1932.

LUMBER, etc.—**Albia, Ia.**—Feb. 3, at office Auditor Monroe Co., 145,576 ft. fir lumber, 22,700 ft. creosoted fir lumber, 2,660 ft. creosoted piling.

LUMBER, etc.—**Clarion Ia.**—Feb. 2, at office Auditor Wright Co., 35,700 ft. B.M. full sawed common structural treated fir lumber, 1,960 lin.ft. treated fir or long leaf yellow pine piling, 1 carload 15 in. corrugated culvert pipe, season's need of gasoline, oils and greases.

GASOLINE, NAILS, OILS, etc.—**Creston, Ia.**—Feb. 2, by Engineer Union Co., furnishing year's supply gasoline, lubricating oil, oxygen creosote oil, acetylene, nails, creosote oil, linseed oil, turpentine, paint.

CULVERT PIPE—**Elkador Ia.**—Feb. 3, at office Auditor Clayton Co., 2,500 lin.ft. 15 in., 3,500 lin.ft. 18 in., 1,500 lin.ft. 24 in., 300 lin.ft. 30 in. and 800 lin.ft. 36 in. corrugated metal culvert pipe.

BRIDGE PLANK, etc.—**Ft. Madison Ia.**—Feb. 2, at office Auditor Lee Co., 118,000 ft. Class D standard sawn rough bridge floor plank delivered f.o.b. County Home Switch and Ft. Madison; 14,400 ft. B.M. Class A joist, full sawn, f.o.b. Ft. Madison.

LUMBER, etc.—**Rock Rapids Ia.**—Feb. 16, at office Auditor Lyon Co., 10,000 lin.ft. treated Southern pine piling, 114,500 lin.ft. treated Southern pine lumber, 102,848 ft. Douglas fir lumber.

LUMBER, CULVERT PIPE, etc.—**West Union, Ia.**—Feb. 2, at office J. H. Cline, aud Fayette Co., 6 cars untreated and 1 car treated full sawed, Douglas fir plank, 7,000 lin.ft. untreated full sawed, Douglas fir bridge caps, 15,000 lin.ft. untreated fir dimension lumber, 2,500 lin.ft. Tennessee red cedar piling, 6,000 lin.ft. corrugated steel culvert pipe.

GRANITE EDGESTONES—**Boston, Mass.**—Feb. 4, by Supply Dpt., P. A. Chapman, supt., granite edgestones to Dpt. P. Wks., as specified. $5,000.

CURB COCKS, etc.—**Minneapolis, Minn.**—Feb. 1, by F. S. Gram, city purch. agt., 3,000 curb and 3,000 corporation cocks. E. W. Elsberg, city engr.

ROAD OIL, ASPHALT, etc. — **Minneapolis, Minn.**—Feb. 8, by A. P. Erickson, aud. Hennepin Co., 1932 season's supplies of road oil, tar, cut-back asphalt, sand and gravel. W. E. Duckett, Minneapolis, co. hy. engr.

CEMENT—**Syracuse, N. Y.**—Feb. 1, by O. S. Crane, purch. agt., Onondaga Co., 70,000 bbl. cement for use County Hy. Dpt.

CAST IRON PIPE—**Warwick, N. Y.**—Feb. 16, at office Dpt. Social Welfare, State Office Bldg., Albany, c.i. pipe, vitr. pipe, hydrants, valves, at New York Training School for Boys. C. H. Johnson, comr.; adv. E.N.-R. Jan. 28.

ASPHALT CEMENT, etc.—**Hamilton, Ont.**—Feb. 13, by J. Peebles, Esq., mayor, chn. Bd. Control, City Hall, furnishing Corporation of City with asphalt cement, crushed stone, screenings, limestone dust, asphalt sand, crushed and screened gravel concrete sand, vitr. and concrete sewer pipe, "ordinary" iron castings, c.i. pipe and special castings, extension boxes, wrought iron pipe, fuel oil, road oil, duck covers, bass brooms, section sweepers, hydrant castings, brass work, frost jacket hydrants, adv. E.N.-R. Jan. 28.

CONTRACTS AWARDED

CAST IRON PIPE—**El Centro, Calif.**—City Council, 3,000 ft. 4 in. B and S c.i. pipe, to National Cast Iron Pipe Co., 710 4th Pl., Los Angeles, at $0.356 stock from foundry. Noted Dec. 24.

TROLLEY WIRE—**San Francisco, Calif.**—L. S. Leavy, city purch. agt., 5 mi. 4/0 figure 8, hard-drawn copper trolley wire, to General Electric Supply Corp., 1201 Bryant St., at $11.28 per 100 lb. with allowance of $18 for empty reels.

PIPE—**Whittier, Calif.**—City Council, 7,000 ft. ¾ in. copper service pipe in 18 and 20 ft. lengths and 3,000 ft. 2 in. in 20 ft. lengths, to Ducummon Corp., 219 South Central Ave., Los Angeles, at $9.51 and $27.51 per 100 ft.; 5,000 ft. 4 in. and 5,000 ft. 6 in. Class 150 c.i. pipe, to C. G. Claussen, 2120 East 25th St., Los Angeles, at $0.25 and $0.40 per ft. respectively.

STEEL PIPE, COUPLINGS, etc. — **Yreka, Calif.**—City, 3,600 ft. 8 in. 14-gage double riveted and double dipped soil proof wrapped sheet steel pipe in 30 ft. lengths and one hundred and twenty-seven 8 in. Dayton couplings with bolts and baskets, to Western Pipe & Steel Co., 444 Market St., San Francisco, at $0.60 per ft. and $2.75 each respectively.

SAND and CEMENT—**Chicago, Ill.**—Dpt. P. Wks., City Hall, to Material Service Co., 33 North La Salle St., furnishing, delivering mason sand required by Bureau Engineering during term ending Dec. 31, 3,500 tons by truck at $0.835, 300 tons by rail at $0.70 per ton, furnishing, delivering in bulk 70,000 bbl. portland cement, for construction Chicago Ave. brake and Land Tunnel at $1.28 per bbl. or total $89,600, subject to reduction in mill prices. Noted Dec. 17.

LUMBER, etc.—**Cherokee, Ia.**—Cherokee Co., to Wheeler Lumber Co., 606 Hubbell Bldg., Des Moines, 121,894 ft. fir lumber at $31.50 to $35.40 per 1,000 respectively, depending on size, also 79,592 ft. B.M. treated yellow pine piling, 6,300 lin.ft. treated yellow pine lumber. Noted Jan. 7.

CAST IRON PIPE—**Boston, Mass.**—City, Dpt. Supplies, c.i. pipe to Water Service as specified, to U. S. Pipe & Fdry. Co., 1421 Chestnut St., Phila., Pa., $63,470.

BITUMINOUS PATCHING—**Boston, Mass.**—City, Supply Dpt., P. A. Chapman, supt., 4,000 tons bituminous patching material to P. Wks. Dpt., to Trimount Oil Co., 1840 Parkway, Everett, $20,720.

COMPOSITION CASTINGS—**Boston, Mass.**—Supply Dpt., P. A. Chapman, supt., 70,000 lb. composition castings, to Gibby Fdry. Co., 96 Condor St., East Boston, $12,437.

CAST IRON PIPE — **Taunton, Mass.** — Commonwealth of Massachusetts, Dpt. Mental Diseases, State House, Boston, c.i. pipe and covering as specified for state hospital, to Wyckoff & Lloyd Co., 55 Emery St., Springfield, $6,731.

EQUIPMENT

BIDS ASKED

LOCKERS— **Sacramento, Calif.**—Feb. 5, by S. E. Howard, adjutant genl., State Office Bldg. 1,550 armory lockers, steel.

MAINTENANCE OUTFIT, etc.—**Vinton, Ia.**—Feb. 1, at office Auditor Benton Co., 1 complete maintenance outfit, 6 rotary fresnos.

GENERATING UNITS, SWITCHBOARDS, HYDRANTS, etc.—**Morgan City, La.**—Feb. 10, by Mayor. Item 1, furnishing, installing 400 kw. oil engine, generating units, complete with accessories; Item 2, switchboards; Item 3, two 1,000 g.p.m. Underwrite motor driven pumps, two 500 g.p.m. Domestic service motor driven pumps, one 1,000 g.p.m. and one 3,000 g.p.m. low head motor driven pumps; Item 4, one 12,000 gal. oil storage tank; Item 5, building; Item 6, machinery foundations; Item 7, electric transmission system, erecting furnishing materials, water distribution system; Item 8, furnishing 7,800 ft. 6- to 10-in., c.i. pipe; Item 9—hydrants and valves. Swanson & McGraw, Morgan City, engrs.

CONVEYOR BELT—**Saugus, Mass.**—Malden Crushed Stone Co. 821 Bway., in market 36 in. conveyor belt, 100 ft. long for conveying crushed stone.

TAPS, DIE HEADS, etc.—**Boston, Mass.**—Duplicate Parts Co., 48 Binford St., in market collapsible taps, self-opening die heads, tools.

TRAFFIC SIGNALS—**Boston, Mass.**—Feb. 2 by Supply Dpt., P. A. Chapman, supt., isolated automatic traffic signals for Traffic Comn. $5,000.

TRUCK—**Fergus Falls, Minn.**—Feb. 10, by W. Lincoln, aud., Otter Tail Co., 1 truck, 1 trailer grader, 2 crawler type tractors.

TRACTOR—**Preston, Minn.**—Feb. 10, by F. J. Ibach, aud. Fillmore Co., caterpillar tractor, Model 20, and pull-type power maintenance patrol unit.

LUMBER CONVEYOR—**Braintree, Vt.**—Braintree Store, Braintree, in market gravity lumber conveyor, long or chase rope feed sawmill.

CONTRACTS AWARDED

POWER PLANT EQUIPMENT—**Highland, Ill.**—City Council, C. H. Stocker, mayor, municipal light and power plant equipment, incl. boiler feed pump, to Ingersoll-Rand, Inc., 2701 Olive St., St. Louis, Mo., $932; surface condenser, to Croll Reynolds Eng. Co., Inc., 17 John St., New York, $5,340; force draft cooling tower, to Shubert-Christy Corp., Affton, Mo., $3,420. Grand total $9,692.

MANHOLE FRAMES, etc.—**Baltimore, Md.**—Bd. Awards, furnishing, delivering manhole frames and covers, sewer inlet and similar iron castings to Bureau of Sewers, to American Brake & Shoe Fdry. Co., Fulton Station, Baltimore, $14,945.

FOREIGN

France, LeHavre — French Government Concession, Paris, awarded contracts for initial work of design and construction primary crude oil distillation equipment for oil refinery, on Trancarville Canal, here, to Schneider & Cie. Paris, and to A. G. McKee & Co., 2422 Euclid Ave. Cleveland, O. To exceed $1,000,000. Total est. $15,000,000.

Union Socialist Soviet Republics—Soviet Government, c/o Amtorg Trading Co., 261 5th Ave., New York, will develop irrigation project for cotton cultivation, in Soviet Central Asia, 122,000,000 cu. meters excavation in 1932, and 150,000,000 cu. meters in 1933, by day labor and technical aid contracts.

U. S. S. R., Kherson (Ukraine)—Soviet Government, c/o Amtorg Trading Corp., 261 5th Ave., New York, plans canning plant, with 100,000,000 cans per year capacity. To exceed $1,000,000. **Maturity soon.**

U. S. S. R., Odessa—Commissariat for Transportation of Soviet Russia, c/o Amtorg Corp., 261 5th Ave., New York, plans remodeling and extending automatic railroad signal manufacturing plant. To exceed $500,000.

Commercial Buildings

RESIDENTIAL

BIDS ASKED

Ill., Chicago—See "Contracts Awarded."

Md, Baltimore—Feb. 2, by Palmer & Lamlin, archts., 513 North Charles St., 10 story, basement, brick, stone, reın.-con., structural steel, Charles St. and Bishop's Rd., for Northway Apartment Co., I. C. Goldstein, pres., Calvert Bldg., $850,000.

N. J., Bernardsville — Thomsen Land Co., Lyons, soon takes bids general contract 3 story, basement, 35 x 275 ft., brick, steel, Somerset Ave. and Lyons Rd. $175,000. Private plans. Noted Sept. 24.

N. J., Kearny (sta. Arlington)—See "Contracts Awarded."

N. J., Newark—See "Contracts Awarded."

N. J., South Orange — Suburban Apartment Corp., J. Zimick, 3988 Blvd., Union City, taking bids general contract 3 story, basement, brick steel, 180 Irvington Ave. $150,000. M. Kraut, 3010 Blvd., Jersey City, archt.

N. Y., Brooklyn—See "Contracts Awarded."

N. Y., Wyandanch — Harry Levey Realties, Inc., 145 Bway., New York, residential development, incl. 500 cottages. To exceed $500,000. Work will probably be done by separate contracts, lumber to be furnished by Amityville Lumber Co., Bway., Amityville.

Pa., Pittsburgh—Governor Tener Hotel Co., J. K. Tener, pres., c/o Simons, Brittain & English, archts., 336 4th Ave., bids about Mar. 15. Governor Tener Hotel, 36 story, 66 x 110 ft., brick, steel, 10th and Liberty Sts. $4,000,000. Noted Apr. 16.

CONTRACTS AWARDED

Ill., Chicago—A. W. Swayne Corp., 520 North Michigan Ave., 2nd unit of 5 to consist of 22-story co-operative apartment building of 81 apartments, Sheridan Rd. and Belmont Ave., day labor. $1,000,000.

N. J., Kearny (sta. Arlington)—Verona Constr. Co., 60 Park Pl., Newark, 3 story, basement, brick, steel, Belgrove Dr., separate contracts. $150,000. N. Harris, 17 Mechanic St., Newark, archt. Noted Nov. 12.

N. J., Maplewood—Tower Hill Manor Co., L. C. Tower, pres., Wyoming Ave., plans by B. H. Shepard, 610 Scotland Rd., Orange, 2 story, basement, brick community center and residences, Wyoming Ave. $1,000,000. **Maturity in March.** W. Miller, 610 Scotland Rd., Orange, builder. Noted Jan. 7.

N. J., Newark—T. Bornstein, 46 Wilber Ave., 5 story, basement, brick, steel, Renner Ave., separate contracts. $150,000. E. F. Hauser, 9 Clinton St., archt.

N. Y., Brooklyn—Milberg Constr. Co., 26 St., 6-story, basement, brick, steel, East 23rd St. and Ditmars Ave., separate contracts and day labor. $200,000. Cohn Bros., 215 Montgomery St., archts.

N. Y., Brooklyn—L. Funt Realty Corp., 2330 65th St., 6 story; 93 x 100 ft., 16th Ave. and 66th St., separate contracts. $225,000. B. Jalkow, 375 Fulton St., archt.

CLUBS

PROPOSED WORK

Conn., New Britain—Y. M. C. A., Bd. Directors, sketches by Y. M. C. A. Architectural Bureau, A. Larson, in charge, 347 Madison Ave., New York. Y. M. C. A.; Court St. To exceed $150,000. **Maturity in March.**

Ill., Henry—Club, c/o J. H. Cooper, agt., 1319 Hamilton Blvd., Peoria, 2 story club house, incl. arts, dining room, boat house, landscaping, on river near here. $750,000.

Wis., Beloit—Beta Theta Pi Fraternity, C. Amenoff, acting pres., 1324 Chapman St., plans by Allen & Webster, 225 North Michigan Ave., fraternity house, college campus, College Ave. and Emerson St. **Maturity Mar. 1.**

BIDS ASKED

N. J., Somerville — Korf, Poggi & Bragdon, archts., 275 Morris Ave., Elizabeth, bids about Feb. 6, general contract altering and constructing 1 and 2 story, basement, 75 x 150 ft., brick, steel club house addition, West End Ave., for B. P. O. E., West End Ave. Est. $150,000. Noted Nov. 26.

HOSPITALS

PROPOSED WORK

Me., Auburn—C. M. G. Hospital remodeling interior old part of hospital. $300,000.

Mass., Foxboro — Commonwealth of Massachusetts, Dpt. Mental Diseases, State House, Boston, plans by E. C. Luce, Jr., 87 Beacon St., Boston, and takes bids in February, female hospital ward, brick, at Foxboro State Hospital. $150,000.

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Hospitals (Continued)

Mass., Holyoke—House of Providence Hospital, 679 Dwight St., plans by J. W. Donahue, 1200 Main St., 4 story, basement, irregular sized maternity building. $250,000. **Maturity in spring.** Noted Apr. 2.

Mass., Pittsfield—Hillcrest Surgical Hospital sketches by J. McA. Vance, 24 North St., hospital. $300,000. **Maturity this year.**

N. H., Wolfeboro—Huggins Hospital, sketches by A. H. Dow, 192 Boylston St., Boston, altering and constructing hospital addition, South Main St. $150,000.

N. J., Jersey City—Bd. Freeholders Hudson Co., Court House, nurses' home. $150,000. **Maturity soon.**

N. J., Scotch Plains—Bd. Freeholders Union Co., Court House, Elizabeth, rejected bids Dec. 28, 2 story, basement, brick, steel sanitorium, at Bonnie Burns Sanatorium. $150,000. Oakley & Son, 2259 Clinton Pl., Elizabeth, archt. Noted Dec. 24.

N. Y., Brooklyn—Nurses' Club of Brooklyn, G. Hewett, in charge, 66 Court St., plans by Bowden & Russell, 19 West 44th St., club, Washington and Greene Aves. $450,000. Noted Nov. 19.

N. Y., Brooklyn—Dpt. Hospitals, Municipal Bldg., New York, general contract top addition to Cumberland Hospital, Cumberland and Myrtle Aves. $300,000. C. B. Meyers, 31 Union Sq., archt. Will take bids when city resumes municipal construction program. Noted Nov. 19.

Pa., Darby—Jan. 26, by Hoffman-Henon Co., archts., Finance Bldg., soon lets contract 10 story, basement, 48 x 140 ft., and 40 x 60 ft., rein.-con., brick steel hospital, plain found., Main and Davis Sts., for Trustees Mercy Hospital, 18th and Summer Sts.

Pa., Pittsburgh—P. C. Dowler, archt., Century Bldg., preparing plans additional buildings, incl. power house, etc., and will take new bids in spring, completing South Side Hospital, 8 story, basement, brick, tile, South 20th and Jane Sts., for South Side Hospital, J. E. Roth, pres., 1800 Carson St. Total est., $2,000,000. S. S. Goldwater, 1212 5th Ave., New York, consult. archt.

Que., Montreal — Montreal Hebrew General and Maternity Hospital, bids early in March nurses' residence, Cote Ste. Catherine Rd. $250,000. Private plans.

Que., Montreal — Bd. Governors Montreal Childrens Hospital, St. Antoine St., bids in March, hospital addition. $150,000.

CONTRACTS AWARDED

Calif., Yountsville—State Dpt. P. Wks., Sacramento, general contract hospital, incl. 4 story administration building, two 4 story ward buildings, 1 and 2 story service buildings, all rein.-con., to R. W. Littlefield, 337 17th St., Oakland, $407,245; refrigeration, to Carbondale Mchy. Corp., 1031 South Bway., Los Angeles, $21,600; electrical work, to W. B. Baker, 270 6th St., San Francisco, $28,495; heating and ventilating, to Alta Electric & Eng. Co., 938 Howard St., San Francisco, $34,896; plumbing, to Carpenter & Mendenhall, 907 Front St., Sacramento, $38,900. Grand total $531,136. Noted Dec. 17.

Mass., Norfolk — Commonwealth of Massachusetts, Dpt. Mental Diseases, State House, Boston, 2 story, basement, irregular sized, brick, concrete farm dormitory, concrete found., at State Prison Colony, to L. B. Cadario & Sons, 260 Tremont St., Boston, $107,000. Est. $150,000. Noted Dec. 10.

CHURCHES

PROPOSED WORK

Ill., River Forest—Catholic Bishop of Chicago, c/o T. A. Canty, pastor St. Lukes Roman Catholic Church, sketches church. $300,000. **Maturity in spring.** Architect not appointed.

Ill., Wilmette—Catholic Bishop of Chicago, c/o St. Josephs Roman Catholic Church, sketches church. $300,000. Architect not appointed.

N. J., Jersey City—E. W. Neuman, archt., 26 Journal Sq., rejected bids Oct. 5, altering 2 story, basement, brick, steel church, Summit and Magnolia Aves., for Westminster Presbyterian Church, H. L. Wyatt, pastor, 304 Academy St. Est. $150,000. Noted Oct. 1.

N. J., North Haledon—Owner, c/o J. Bellomo, archt., 6 Park Ave., Paterson, sketches 50 x 110 ft chapel. $150,000.

N. Y., New York—Our Savior Evangelical Lutheran Church, 1059 Pierce Ave., church and Sunday school on 100 x 136 ft. site, Williamsbridge Rd. and Morris Park Ave. $150,000.

BIDS ASKED

Ill., Mendota—German Lutheran Church bids about Mar. 15, general contract church, parish house, 6th St. and 10th Ave. $160,000. H. A. Brand, 400 West Madison Ave., Chicago, archts.

Mass., Marlboro—St. Ann's Italian Roman Catholic Church, bids about Feb. 7, altering and constructing 1 story, basement, brick addition, plain found., Lincoln St. $150,000. R. C. Gorrani, 175 Green St., Worcester, archt. Noted Aug. 6.

Mich., Ann Arbor—T. Tanner, archt., 340 Nickels Arcade, taking bids 3 story, basement, brick, steel, concrete, stone church house, plain found., for Bethlehem Evangelical Church. $150,000.

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Pa., Pittsburgh — Feb. 1, by J. L. Stuart, constr. supt., Oliver Bldg., steel, stone, stone setting, structural floors, concrete work, plumbing, heating, electrical work, for 1 to 3 story, basement, 350 ft. tower, irregular sized church and parish house, Pennsylvania Ave., South Highland Baum Blvd., and South Whitfield St., for East Liberty Presbyterian Church, 503 Highland Bldg. Cram & Ferguson, 248 Boylston St., Boston, Mass., archts. Noted Sept. 17.

CONTRACTS AWARDED

Calif., Altadena—Mountain View Mausoleum Co., 3 and part 4 story, 50 x 150 ft. chapel, rein.-con., tile, art stone, marble, bronze, ornamental iron, art glass chapel, 2300 North Marengo St. to C. E. Bryan, 2300 North Marengo St. Est. $350,000. Contractor will let sub-contracts.

Calif., Bakersfield—C. H. Bigger, archt., Bank of Italy Bldg., 2 story, concrete, to W. Eissler, P. O. Box 532, for First Baptist Church. $150,000. Noted Nov. 19.

La., Marrero—Catholic Church Diocese, 2 and 3 story, fireproof church, rein.-con. footing, brick walls with Spanish type stuccoed exterior, concrete slab and beams, steel joists, and Madonna Manor School and Auditorium, 2 story, 94 x 145 ft. rein.-con., steel, brick, cut stone, rein.-con. found., also steam heating, to L. F. Favret, Louisiana Bldg., New Orleans, $166,125 and $56,150 respectively.

SCHOOLS

PROPOSED WORK

Colo., Denver—Denver University plans by H. J. Manning, Capitol Life Bldg., additional college buildings, incl. $350,000 library.

Ill., Chicago—Bd. Educ., 188 West Randolph St., E. Whitehall, bus. mgr., plans by J. C. Christensen, 188 West Randolph St., Junior High School, 4 story, basement, irregular sized, brick, steel, plain found., 73rd and Chappel Sts. $1,000,000. **Maturity in summer.**

Ind., Hanover—Hanover College, campus development under general plan. To exceed $150,000.

Ind., Terre Haute—Indiana State Teachers College, 217 North 6th St., H. Benbridge, secy., plans by Miller & Yeager, 819 Ohio St., rein.-con., concrete, steel, brick, stone training school, Hemingway Park. $400,000. Noted Jan. 14.

Ind., Wabash — Wabash College sketches, campus development under general plan. To exceed $150,000.

Mass., Lee—Town, C. Miller, sup. schools, revised plans by M. W. Maloney, 23 Pearl St., Springfield, 2 story, basement, brick, stone high school, incl. assembly hall. Est. exceeds $150,000. **Maturity in March.** Noted Oct. 29.

Mo., Fulton—Westminster College, additional college buildings. To exceed $150,000. **Maturity indefinite.**

N. J., Passaic—Bd. Educ., R. D. Benson, pres., 18 Belmont Pl., new sketches School 3, 2 story, basement, brick, steel, rein.-con. $150,000.

N. J., Paterson—Bd. Educ., City Hall, altering School 1, 3 story, basement, brick, steel, rein.-con., into administration and storage building. $150,000. **Maturity indefinite.** Architect not appointed.

N. Y., West New Brighton—St. Pauls Roman Catholic Church, 134 Franklin Ave., plans by Sibley & Featherstone, 205 East 42nd St., New York, 2 story, basement, brick, steel, concrete school, Clinton Ave. $150,000. **Maturity in fall.** Former bids rejected.

O., Granville—Denison University plans by Gehron & Ross, 101 Park Ave., New York, library building, dormitories. **Maturity about April.**

O., Marietta—Marietta College, campus development under general plan. To exceed $150,000. F. Larson, Hanover, N. H., consult. archt.

Pa., Huntington—Juniata College plans by G. E. Brumbaugh, Real Estate Trust Bldg., Phila., general campus development, incl. academic building addition, president's residence, music building, gymnasium, stadium, auditorium, men's and women's dormitories. To exceed $150,000.

Pa., Pittsburgh—Bd. Educ., H. W. Cramblet, secy., Administration Bldg., plans by Marks & Kann, Home Trust Bldg., and takes bids about February, Alice M. Carmalt Elementary School, brick, steel, Fairhaven Rd., East Brookline. $200,000. C. L. Wooldridge, Inc., Fulton Bldg., consult. engrs. Noted Dec. 10.

Tenn., Knoxville — University of Tennessee sketches by Barber & McMurray, Tennessee General Bldg., biology building with laboratory, also library reconstruction. To exceed $300,000. **Maturity this fall.**

Tenn., Memphis — Southwestern University, University Campus, plans further development of new campus under general plan, incl. tower, other buildings.

Tenn., Nashville—Fisk University, 17th Ave. N., music and fine arts building. To exceed $150,000.

Tex., San Antonio—Bd. Educ., Lavaca and Water Sts., authorized H. P. Smith, archt., National Bank of Commerce Bldg. and Phelps & DeWees, Bd. archts., 618 Gunter Bldg., to resume plans converting present Main Ave. Senior High School into vocational plant, general remodeling of present 2 story 120 x 220 ft., brick building and purchase and installation of considerable machinery, equipment, Ramona St. and Main Ave. $125,000. Bids about Ma
Noted June 18.

Ont., Hamilton—Bd. Educ., City Hall, p
by W. P. Witton, 7 Hughson St. S., conc
brick, steel, stone, tile, terrazzo addition
George R. Allen School. $160,000.

Mass., New Bedford—Sassaquin Sanato
sketches by C. Hammond & Son, 179 Water
infirmary. $150,000.

BIDS ASKED

Conn., Wethersfield—Town, W. Greer, s
schools, taking bids 4 room addition to Grisw
ville School, 2 room addition to Chas. Wr
School and addition to Wethersfield High Sch
$150,000. Ebbets & Frid, 15 Lewis St., H
ford, archts. Noted Jan. 7.

Del., Lewes—Feb. 5, by State School Bu
ing Comn., H. V. Holloway, supt., Dover
story, basement, brick, steel addition, p
found. $150,000. Guilbert & Betelle, 20 Br
ford Pl., Newark, N. J., archts. Noted Dec.

Mo., St. Louis — St. Thomas of Aqui
Roman Catholic Parish, J. P. Lynch, pas
3953 Iowa Ave., bids about Feb. 3, general
tract 2 story, basement, brick, steel, rein.-
school, Iowa Ave. H. P. Hess, 1001 Amba
dor Bldg., archt.

N. J., Fort Lee—Feb. 2, by Holy An
School, Main St., 3 story, basement, brick, st
grade and high school, Main St. $200,0
R. C. Reilly, 111 5th Ave., New York, arc

N. J., Hasbrouck Heights — Bd. Educ.,
Beyer, chn. Special Housing Comn., Frank
School, bids about Feb. 1, Euclid School,
story, basement, brick, steel, rein.-con., Pass
Ave. $150,000. E. I. Williams, 131 W
Passaic Ave., Rutherford, archt.

Pa., Oil City—Bd. Educ., R. M. Stanton, pre
Beech Bldg., plans by W. H. Crosby, 31 Be
Bldg., and takes bids about Mar. 1, Seni
High School, 4 story, basement, 90 x 200
brick, tile. $227,000. Noted Dec. 10.

CONTRACTS AWARDED

Mass., Brighton (sta. Boston)—City of Bost
Dpt. School Buildings, 2 story, basement, 60 x
135 ft. brick, granite, plain found., to Rug
Constr. Co., 80 Boylston St., Boston, $134,28
Noted Jan. 14.

N. Y., Greenport—Bd. Educ., School Dist. 1
grade and high school, to J. V. Schaefer, 7 Eas
42nd St., New York. Contract subject to di
trict being able to sell necessary bonds. Note
Dec. 17.

N. Y., Mount Vernon—Bd. Educ., 60 South
3rd St., electrical contract addition to Georg
Washington School, to G. H. McKee, 76 East
3rd St., Mount Vernon. $60,000. Noted Jan.
under "Contracts Awarded."

Pa., Pittsburgh—Kaiser, Neal & Reid, archt
Keystone Bldg., general contract 2 story, bas
ment, 60 x 147 ft., brick, steel activities buil
ing, incl. swimming polo, audtiorium, gym
nasium, to D. T. Riffle, 1006 Forbes St.; plum
ing, to Weldon & Kelly Co., 1801 Locust St
for Mt. Mercy Academy, Sister Regina an
Sister Gerald, in charge, 3333 5th Ave. Es
$150,000. Noted Jan. 7.

Wis., Milwaukee — Bd. School Directors
marble for Solomon Juneau High School, to W
Salmon Marble Co., 1536 West Pierce St., $25,
765; electrical work, to Schultz & Fuhr, 20
East Erie St., $41,337; heating and ventilating
to Downey Heating Co., 1739 West St. Paul
Ave., $82,829; heat regulators, to Johnson Serv
Co., 507 East Michigan Ave., $12,067; plumb
ing, to Wenzel & Henoch, 1524 North 27th St
$39,878; elevator, to F. Rosenberg Elevator Co
3745 North Richards St., $3,566. Grand total
$196,442. Noted Dec. 24.

Ont., Willowdale—North York High School Bd., general contract 2 story, basement, brick stone addition to Earl Haig School, to St. Clair Hurlburt, Willowdale; excavation, to D. Keller, 73 Adelaide St. W., Toronto; plumbing and heating, to W. Stobbs, 31 Lytton Blvd Toronto; electrical wiring, to Roxborough Electric Co., 24 Bloor St. W., Toronto; structural steel, to Reid & Brown, Fleet St., Toronto. Total est. $160,000. Noted Nov. 26.

THEATRES

PROPOSED WORK

Me., Gardner—H. Johnson, c/o R B. Erskine
lessee, 280 Water St., reconstructing 2 story
basement theatre, store, recently destroyed by
fire, $150,000. Archiect not appointed.

CONTRACTS AWARDED

Calif., Berkeley—United Artists Theatre of
California, Inc., 333 South Bway., Los Angeles
rein.-con. theatre, to Cahill Bros., 206 Sansome
St., San Francisco, $188,785. Noted Nov. 27

N. Y., New York—Metropolitan Square Corp
and Todd, Robertson & Todd Eng. Co., 347 Madison Ave., 2,500,000 face bricks for Radio City, to Hanley Co., Inc., Bradford, Pa. Noted Mar. 19.

BANKS

PROPOSED WORK

Me., Skowegan — Augusta Trust Co., Water St., reconstructing 2 story bank. $150,000 **Maturity in spring.** T. J. James Co., 3 Park St., Boston, Mass., archts.

N. J., Linden — Linden Trust Co., G. W.
Bauer, pres., Wood Ave., 2 story, basement

Banks (Continued)

brick, steel bank addition. $150,000. **Maturity indefinite.**

N. Y., Brooklyn — Dime Savings Bank, 9 DeKalb Ave., 4 story, 80 x 100 ft. bank, Avenue J and Coney Island Ave. $150,000. **Maturity indefinite.**

OFFICES

PROPOSED WORK

Ill., Chicago—Six Hundred and Thirty-Three North Michigan Building Corp., 75 East Wacker Dr., sketches by Granger & Bollinbacker, 333 North Michigan Ave. 17 story, basement, 46 x 100 ft., rein.-con., Indiana limestone, concrete, steel office, plain or caisson found., 633 North Michigan Ave. $1,000,000. **Maturity in late spring or summer.** L. A. Snider Eng. Serv., Inc., 605 North Michigan Ave. engrs.

Ind., Indianapolis—Indianapolis Life Insurance Co., 2960 North Meridian St., F. P. Manly, pres., sketches 3 story, basement addition. $150,000. Architect not appointed.

Tex., Fort Worth—Trinity Res. Life & Trinity Bond Investment Co., plans by W. C. Hedrick, 1st North Bank Bldg., 5 story (ultimately 15 story), brick, stone, steel office, plain found., 7th and Taylor Sts. Butcher & Sweeney, 806½ Taylor St., will be contractors.

BIDS ASKED

Del., Wilmington—Delaware School Foundation, A. J. Taylor, vice-pres., Du Pont Bldg., bids about June 1, 3 story, basement, brick, steel office, plain found. $150,000. Guilbert & Betelle, 20 Branford Pl., Newark, N. J., archts. Noted Nov. 12.

N. J., Union—F. A. Elsasser, archt., 1000 Stuyvesant Ave., taking new bids general contract 2 story, basement, brick, steel office, store and post office, Morris Ave., for Aryan Holding Co., 998 Stuyvesant Ave. $150,000. Noted Dec. 10.

STORES

PROPOSED WORK

N. J., Bernardsville—Fisher & Brown, archts., 102 North Ave., Plainfield, rejected bids Dec. 15, general contract 1 and 2 story, basement, brick, steel store, apartment, Mine Brook Rd., for John Url, 71 Claremont Rd. Noted Dec. 10 Daily.

N. J., Jersey City—Owner, c/o J. T. Rowland, Jr., archt., 30 Journal Sq., sketches 6 story, basement, brick, steel, rein.-con. store, office, Hudson Blvd. $150,000.

N. J., Newark—Owner, c/o Siegler & Greenberg, archts., 164 Market St., 2 story, basement, brick, steel store, apartment, Chancellor Ave. and Leslie St. $150,000. Saul Shaw & Co., 24 Commerce St., engr. Architect now taking bids on architectural terra cotta. Noted Oct. 8.

N. J., Plainfield—C. C. Gordon, 437 North Ave., rejected bids 3 story, basement, brick, steel store, apartment, East Front St. $150,000. W. L. Finne, 124 West Jersey St., Elizabeth, archt. Noted Dec. 17.

N. J., Union—H. Forman, 103 Broad St., Elizabeth, rejected bids 2 story, basement, brick, steel store. $150,000. Poggi & Bradgon, 275 Morris Ave., Elizabeth, archts. Noted Dec. 17.

N. Y., Brooklyn—S. Wacht Estate, 565 5th Ave., New York, plans by V. Mayper, 110 West 40th St., New York, 4 story, 109 x 120 ft. store and office, Jay and Fulton Sts. $150,000.

N. Y., Syracuse—Goodyear Tire & Rubber Co., 1144 East Market St., Akron, O., 132 x 160 ft. building to house stores, offices, service station, East Water St. $300,000.

N. Y., Tompkinsville — Owner, c/o D. J. Scrocco, archt., 60 Park Pl., Newark, N. J., 3 story, basement, 120 x 190 ft., brick, steel store, apartment Castleton and Woodstock Aves. $150,000.

BIDS ASKED

N. J., Montclair—Siegler & Greenberg, archts., 164 Market St., Newark, bids about Mar. 1, general contract 3 story, basement, brick, steel store, apartment, for Owner, c/o architects. $150,000. Noted Oct. 1.

N. J., Newark—Rekoon Constr. Co., 60 Park Pl., taking bids separate contracts 2 story, basement, brick, steel store, apartment, Chancellor Ave. and Leslie St. $150,000. Siegler & Greenberg, 164 Market St., archts. S. Shaw & Co., 24 Commerce St., engrs.

N. Y., Tompkinsville — See "Contracts Awarded."

CONTRACTS AWARDED

N. J., Paterson—Aetna Realty Co., 972 Broad St., Newark, general contract 2 story, basement, 70 x 135 ft. store, office, Prospect and Ellison Sts., to A. A. Lafountain, Inc., Beech St., Hackensack. Est. $150,000.

N. Y., Tompkinsville—J. DeFayo, 330 East 139th St., New York, 3 story, basement, 120 x 190 ft., brick, steel store, apartment, Castleton and Woodstock Aves., separate contracts. $150,000. D. J. Scrocco, 60 Park Pl., Newark, N. J., archt.

PUBLIC

PROPOSED WORK

Conn., Killingly—ARMORY—State, Armory Bd., sketches by Payne & Keefe, 231 State St., New London, armory. $150,000 or more.

Conn., West Haven (br. New Haven) — ARMORY—State, Armory Comn., J. A. Walsh, West Haven, receiving competitive plans brick armory, Main St. and Wagner Pl. $150,000.

Ind., Elkhart—MUNICIPAL—City, W. P. Krau, mayor, sketches by H. Miller, 535 Butler Bldg., 2 story, basement, concrete, brick, steel, plain found. $150,000.

Mass., Boston—POLICE STATION—City, Dpt. Pub. Buildings, police station, 4th St., South Boston. $150,000. Architect not appointed.

Mass., Brighton—LIBRARY—City of Boston, Library Dpt., Copley Sq., Boston, branch library, Chestnut Hill Ave. $150,000. Architect not appointed.

Mass., Gardner—CITY HALL—City, G. P. Sweeney, mayor, plans by P. Varney, 25 Exchange St., Lynn, brick, cast stone memorial city hall, incl. auditorium, banquet hall, Pleasant St. $400,000. Foundation in.

Mass., Somerville (br. Boston) — POLICE STATION—City, J. J. Murphy, mayor, City Hall, plans by Hefferman & Gray, 175 High St., Boston, 2 and 1 story, basement, brick, stone, concrete, steel combined police station, garage, concrete founds., Union Sq. $250,000. Noted Nov. 26.

Mo., Kansas City—CITY HALL—City plans by Hart, Price & Boruls, 2500 Telephone Bldg., city hall. $3,000,000. Noted June 18.

N. J., Madison—COMMUNITY—Bd. City Council, 2 Green Village Rd., sketches 2 story, basement, 65 x 150 ft., 2 wings each 50 x 55 ft. brick, steel, Kings Rd., between Green and Maple Sts. $150,000, donated by Mrs. Dodge.

Man., Winnipeg—AUDITORIUM—City, City Engineer, 223 James St., plans by Bd. Architects, Power Bldg., and bids latter part of month, 2 story, basement, 160 x 380 ft., stone, steel auditorium, St. Marys Ave. and The Mall. $1,000,000. Excavation for above awarded to J. Reid, 703 Grt. West Permanent Bldg. $35,000, caissons, to Carter-Halls-Aldinger, Royal Bank Bldg., $40,000.

Wis., Sheboygan—COURT HOUSE—Sheboygan Co. appointed committee incl. E. E. Treatschel, c/o Sheboygan Westports Steamship Co. G. Franzen, Random Lake, A. F. Wieland, Ryan, W. B. Lyons, Plymouth, and G. W. Leberman, Sheboygan, to choose site and select architect for court house. $700,000. Noted Dec. 10.

BIDS ASKED

Ind., Pendleton—PRISON, DORMITORY and TRADE SCHOOL—See "Contracts Awarded."

Mass., Boston—POLICE STATION—Feb. 10, by City, Dpt. P. Buildings, 2 and 1 story, basement, brick concrete, plain found., Berkeley St. and Warren Ave. $300,000. J. M. Gray, 175 High St., Boston, arch. Noted Jan. 7.

CONTRACTS AWARDED

Calif., Martinez—HALL OF RECORDS—Clerk Contra Costa Co., structural steel for 3 story, basement, Class A steel, rein.-con. hall of records building, to Golden Gate Iron Wks., 1541 Howard St., San Francisco, $33,264; concrete work, to G. Hudnut, 1015 South St., Sacramento, $72,500; elevators, to Otis Elevator Co., 1 Beach St., San Francisco, $4,439; steel erection, to J. T. Walsh, 251 Kearny St., San Francisco, $8,650; glass and glazing, to W. P. Fuller Co., 301 Mission St., San Francisco, $2,954. Grand total $121,717. All other bids rejected. Noted Dec. 3.

Calif., San Jose—SCIENCE—State Dpt. P. Wks., Div. of Agriculture, Sacramento, general contract 2 story, basement, rein.-con. natural science building, for State Teachers College, to J. F. Shepherd, 1st Natl. Bank Bldg., Stockton, $139,356; plumbing and heating, to A. J. Peters, 455 East Washington St., San Jose, $35,902; electric wiring, to Eddy Electric Co., 309 East Weber St., Stockton, $10,506. Grand total $185,764. Noted Dec. 24.

Ind., Pendleton—PRISON, DORMITORY and TRADE SCHOOL—Indiana Reformatory, 3 story, basement, 80 x 160 ft., rein.-con., brick, steel, hollow tile, day labor. $150,000. Private plans.

N. Y., Kingston—ARMORY—Adjutant General Div. Military & Naval Affairs, Albany, completion of construction armory for field artillery, to L. T. Schoonmaker, 307 Lucas St., $189,991. Noted Dec. 17.

N. Y., Wingdale—FARM BUILDINGS—Dpt. Mental Hygiene, State Office Bldg., Albany, general contract farm buildings, Harlem Valley Hospital, to M. Shapiro & Son, 1560 Bway., New York, $34,980; heating for milk building, to P. W. Schneider, 307 Lafayette St., Utica, $3,554; sanitary work in farm buildings, to H. Homer & Sons, 1700 Gravesend Ave., Brooklyn, $3,500; electrical work, to Wimpie Electric Co., 305 East 45th St., New York, $2,279. Grand total $44,313. Noted Dec. 24.

Man., Winnipeg—AUDITORIUM—See "Proposed Work."

UNCLASSIFIED

PROPOSED WORK

Conn., Hartford—MEMORIAL—Morgan Memorial, 590 Main St., sketches by B. W. Morris, 101 Park Ave., New York, brick, stone addition, Main St. $600,000.

Ill., Chicago—EXHIBITION—General Motors Corp., General Motors Bldg., exhibition building for World's Fair. To exceed $150,000.

Ill., Chicago—GENERAL SERVICE and EXPOSITION—Sears, Roebuck & Co., Arthington and South Homan Aves., sketches by Nimmons, Carr & Wright, 333 North Michigan Ave., monumental type with tower, 120 x 260 ft. general service headquarters and exposition building, Lake Front. $300,000.

Mass., West Roxbury (sta. Boston)—HOME—Altenheim, c/o Funk & Wilcox, archt., 26 Pemberton Sq., Boston, revised plans 3 story, basement, irregular sized, brick, tile, stucco, plain found., Altenheim Home for German Aged, 2222 Centre St. $150,000 or more. Noted Apr. 16.

N. J., Morristown — PROFESSIONAL and STORE—W. E. Lehman, archt., 972 Broad St., Newark, rejected bids 2 story, basement, 70 x 135 ft., brick, field stone steel, South and Pine Sts., for Stamelman Realty Co., c/o architect. $150,000. Noted Oct. 1.

N. Y., Brooklyn—MAUSOLEUM—Cemetery of Holy Cross, 75 Green Ave., bids latter part March superstructure mausoleum, Holy Cross Cemetery and Snyder Ave. $190,000. G. B. Webb, 10 East 43rd St., New York, archt. Noted Dec. 17.

O., Cincinnati—COMMUNITY HOUSE—Owen Phillipus Evangelical Church, Race and McMicken Sts., plans by Rendigs-Panzer & Martin, 519 Main St., and soon takes bids community house, Race and McMicken Sts. $150,000.

BIDS ASKED

Mass., Chelsea—HOME—Feb. 10, by W. J. Keville, pres. Soldier's Home, 3 story nurses' home nad 1 story, basement service building, individually and jointly, each of brick, stone, steel, plain founds., at Soldier's Home. $300,000. Coolidge, Shepley, Bulfinch & Abbott, Boston, archts. Richardson & Gay, 12 Pearl St., Boston, consult. engrs. This corrects report published in Jan. 21 issue with Commonwealth of Massachusetts, Administration Comn., State House, Boston, as owner. Noted Jan. 21.

CONTRACTS AWARDED

Calif., Long Beach—MAUSOLEUM—Sunnyside Mausoleum Co., 47 American Ave., 3 and part 4 story, 50 x 240 ft., rein.-con., tile, stucco, ornamental iron, 1,000 crypt addition, to C. E. Bryan, 2300 North Marengo St., Altadena. Est. $500,000. Contractor will let sub-contracts. Noted Aug. 7, 1930.

Calif., San Francisco—WAR MEMORIAL and OPERA HOUSE—War Memorial Trustees, carpentry, mill work for memorial and opera house, to Dinwiddie Constr. Co., Crocker Bldg., $62,800 and $55,000 respectively; roofing for both buildings, to Alta Roofing Co., 976 Indiana St., $3,063; ornamental iron work on memorial building and opera house, to Sartorius Co., 2530 18th St., $48,162 and $31,270 respectively. Grand total $200,295. Noted Dec. 3.

N. Y., Oscawana — DORMITORY — Valeria Home, 2 story, 33 x 139 ft. dormitory at Valeria Home, to W. L. Crow Constr. Co., 101 Park Ave., New York. Est. $200,000.

Industrial Buildings

FACTORIES AND MILLS

PROPOSED WORK

Calif., Los Angeles—ASSEMBLING PLANT—Chrysler Corp., W. P. Chrysler, in charge, 341 Massachusetts St., Detroit, Mich., preparing plans plant, 300,000 sq.ft. floor space, on 30 acre site, Easterland and Slauson Aves. $3,000,000. Architect not appointed. Noted Jan. 14.

Calif., Oakland—FACTORY and WAREHOUSE—El Dorado Oil Wks. Co., 3rd St. and University Ave., Berkeley, and 230 California St., San Francisco, completed plans 100 x 650 ft. steel, concrete coconut factory, 40 x 416 ft., rein.-on. warehouse, flat slab floors, pile founds., for Adeline St. $750,000. Ellison & Russell, Paific Bldg., San Francisco, engrs.

Ia., Dubuque—FACTORY—Maizewood Products Corp., C. E. Hartford, local mgr., Dubuque, and 203 North Wabash Ave., Chicago, Ill., rebuilding concrete, brick, Saline St. and Railroad Ave. $100,000.

Mass., Watertown—FACTORY—Geo. Weston Biscuit Co., Inc., reconstructing factory unit, between Howard and Acton Sts. recently destroyed by fire. $50,000. Architect not appointed.

Mass., Worcester—FACTORY—M. J. Whitall Assoc., Brussels St., plans by J. D. Leland Co., Statler Bldg., Boston, 2 story, brick, timber, Brussels St. $40,000 or more.

N. J., East Rutherford—FACTORY—K. A. Lefren, Inc., archts., 171 Madison Ave., New York, soon lets contract 2 story, basement, factory plant, for Flintkote Co., Maple St. $40,000.

N. J., Highland Park—FACTORY—Owner, c/o H. G. Bach, archt., 63 Schureman St., New Brunswick, sketches 2 story, basement, brick, steel addition. $40,000.

N. J., Lakewood — BLIMP MANUFACTURING PLANT—Lakewood Comet Aero Advertising Co., A. Heenen, Lakewood, sketches 1 story blimp manufacturing plant, Aboretum Rd. $40,000. Private plans.

N. J., Newark—FACTORY—J. L. Hammett Co., 380 Jellife Ave., and Holden, McLaughlin Associates, archts., 670 5th Ave., New York, soon let contract 2 story, basement, brick, steel, addition, Jeliffe Ave. $40,000.

N. J., Newark—LAUNDRY—Knickerbocker Laundry, c/o Knickerbocker Ice Co., 241 Springfield Ave., 2 story, basement, brick laundry plant. $40,000. **Maturity soon.** Architect not appointed. Noted Nov. 5.

N. J., Newark—FACTORY—Star Electric Motor Co., 140 Miller St., rejected bids 1 story, basement, 160 x 220 ft. brick, steel addition, Riverside Ave. $40,000. Project abandoned. W. H. Jackson, 1841 Bway., archt. Noted Dec. 17.

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Factories and Mills (Continued)

N. J., Newark — FACTORY — Superior Air Products Co., 182 Malvern St., altering and constructing 1 story, basement, brick, steel top addition, Malvern St. $40,000. **Maturity soon.** Architect not appointed.

N. Y., Binghamton—FACTORY—International Business Machine Corp., T. J. Watson, pres., North Endicott St., new engineering laboratory.

N. Y., Brooklyn—LAUNDRY—Brighton Laundry Co., 587 Sheepshead Bay Rd., bids after Feb. 8, altering 2 story, laundry, Sheepshead Bay Rd. and West 6th St. $60,000. J. M. Finichel, 468 4th Ave., archt. Noted Oct. 22.

N. Y., Brooklyn—LAUNDRY—Dpt. Hospitals, Municipal Bldg., New York, plans by LeRoy P. Ward, 205 East 42nd St., New York, 2 story laundry, at Kings County Hospital, Clarkson Ave. east of New York Ave. $100,000.

N. Y., Honeywood (sta. Staten Island)—GAS PLANT—New York and Richmond Gas Co., 691 Bay St., St. George, new sketches artificial gas plant. $125,000. **Maturity about July.** Private plans. Noted Oct. 22.

N. Y., New York—LAUNDRY—Hunts Point Wash Corp., Garrison and Longfellow Aves., bids in March general contract laundry Garrison and Longfellow Aves. $40,000. H. Fenichel Co., 220 East 42nd St., archt. Noted Dec. 10.

N. C., Burlington—TEXTILE MILL—North Carolina Silk Mills, Inc., T. H. Burkhardt, in charge, addition. $40,000.

Pa., Braddock—PLANT—Carnegie Steel Corp., Carnegie Bldg., Pittsburgh, subsidiary of United Steel Co., 71 Bway., New York, sketches additions and alterations to Edgar Thompson Plant. To exceed $40,000.

Pa., Landingville—PLANT—Philadelphia & Reading Coal & Iron Co., Reading Terminal, Phila., rebuilding experimental briquette plant, destroyed by fire.

Pa., Phila.—MANUFACTURING — National Casket Co., 2043 Arch St., plans by G. Young, 487 South Salina St., Syracuse, N. Y., 4 story, basement, 45 x 157 ft., brick, steel, plain found., 1519-21 Fairmount Ave.

Tex., Harlingen—PACKING PLANT—Smith Provision Co., Owensboro, Ky., 1 story, brick, vegetable and citrus packing plant, rein.-con.

Tex., Houston—MANUFACTURING PLANT—Continental Can Co., 1 Pershing Sq., New York, manufacturing plant. To exceed $40,000.

Tex., Overton — CASINGHEAD GASOLINE PLANT—Gulf Refining Co., Comal St., San Antonio, and Gulf Bldg., Houston, casinghead gasoline plant. May move plant from Seminole to Overton. $75,000. Private plans.

Tex., San Marcos—AIRPLANE FACTORY—Grady Walker, et al., San Antonio, airplane manufacturing plant. Chamber of Commerce of San Farcos is negotiating with interests relative to erection of plant, incl. G. Walker of this city.

Va., Alexandria—PLANT—Ford Motor Co., 3674 Schafer Rd., Dearborn, Detroit, Mich., plans by A. Kahn, 1004 Marquette Bldg., Detroit, Mich., distribution service, etc. To exceed $100,000. Noted Dec. 3.

Wis., Ripon—FACTORY—Ripon Handle Co., brick factory. $45,000. Architect not appointed.

BIDS ASKED

Calif., Los Angeles—BATTERY PLANT—Willard Storage Battery Co., 5700 East 9th St., bids about Jan. 30, steel, rein.-con. battery plant additions, incl. lead oxide mill acid reclaiming plant, enlarging administration building, 5700 East 9th St.

N. J., Elizabeth—FACTORY—Elizabeth Lumber Co., M. Goldberg, 1057 East Grand St., general contract bids about Apr. 1, on revised plans 2 story, basement, brick, steel, East Grand St. $40,000. J. Anderson, 251 North Broad St., archt. Noted Dec. 3.

N. J., Elizabeth—ABATTOIR—A. J. Silberstein, archt., 892 18th Ave., Newark, taking bids general contract 1 story, basement, brick, steel addition, Laurel St., for Feldman Bros., Laurel St.

N. J., Paterson—DYE PLANT—J. C. Van Vlandren, archt., 140 Market St., taking bids 2 and 3 story, basement, brick, steel, Sherman Ave., for Apex Piece Dyeing Co., 155 Sherman Ave. Est. $40,000.

N. J., Roselle—DRESS FACTORY—J. Anderson, archt., 251 North Broad St., Elizabeth, bids Feb. 23, general contract 2 story, basement, brick, steel, Chandler Ave., for Roselle Frocks, Inc., 1107 Chandler Ave. $40,000. Noted Dec. 24.

N. Y., Brooklyn—FACTORY—See "Contracts Awarded."

Pa., Wernersville—REFRIGERATING PLANT—Jan. 27, by Commonwealth of Pennsylvania, Dpt. Property and Supply, J. L. Hanna, secy., Harrisburg, founds., cement floors, brick work, tile compressor, motor pumps, piping for refrigeration plant at state hospital.

R. I., Providence—LAUNDRY—Swiss Cleansing Co., 675 Elmwood Ave., taking bids altering and constructing 1 and 2 story, basement, brick addition. $40,000 or more. Jenks & Ballou, New Industrial Trust Bldg., archts. Noted Jan. 21.

Tex., Beaumont—PULP and PAPER PLANT—Commercial Pulp & Paper Co., c/o C. I. Kieren, Beaumont, bids about Mar. 1, plant improvements, incl. new incinerators, disc evaporators, waxing machinery, etc., 10,500 tons annual capacity. Owners organized to take over plant of Yellow Pipe Paper Co., Beaumont. Est. $125,000.

CONTRACTS AWARDED

Conn., Manchester—ICE MANUFACTURING PLANT—L. T. Wood Co., Bissell St., 1 story, brick, steel, Bissell St., to G. Schreiber & Son, Inc., 285 West Centre St., South Manchester. Est. $75,000.

Ia., Dubuque—FACTORY—Maizewood Building Corp., C. E. Hartford, local mgr., Dubuque, and 203 North Wabash Ave., Chicago, Ill., 1 and 3 story, 65 x 225 ft. factory, and 65 x 129 ft. warehouse, rein.-con., steel, to C. Yohkum, Roshek Bldg., $40,000. Present machinery damaged by fire, new machinery required, est., $75,000.

Mich., Ypsilanti—AUTO FACTORY—Albert Kahn, archt., 1000 Marquette Bldg., Detroit, 1 story, 160 x 309 ft., brick, steel, plain found., to H. G. Christman Burke Co., 1010 Fisher Bldg., Detroit, for Ford Motor Co., Construction Dpt., Dearborn. Est. $150,000. Noted Oct. 1.

N. J., Newark—RUBBER FACTORY—Epple & Kahrs, archts., 18 Oliver St., general contract altering 2 story, basement, brick, steel, Oliver St., to D. G. Douglas Co., 605 Broad St., for Weldon Roberts Rubber Co., 18 Oliver St. Est. $40,000. Noted Jan. 14.

N. Y., Brooklyn—FACTORY—J. D. Rugge, 36th St. and 3rd Ave., altering and extending factory, 36th St. and 3rd Ave., separate contract, $40,000. A. Goldberg, 164 Montague St., archt.

N. Y., Brooklyn—PACKING PLANT—Stadler Eng. Co., engrs., 410 Liberty St., 2 story, basement packing plant, to O. Joroff, 336 East 95th St., New York, for F. Wolk, 757 Crown St. Noted Nov. 12.

Pa., Phila. — PLANT — E. I. DuPont De Nemours & Co., 5 story, 75 x 100 ft. paint manufacturing plant, 34th St. and Grays Ferry Ave., to Austin Co., 326 Frelinghuysen Ave., Newark, N. J. $500,000.

Wis., Appleton—PLANT—Wisconsin Rendering Co., C. L. Drude, treas., 1 story, 60 x 150 ft. rein.-con., brick, to F. Hoeppner & Sons, 1203 North Union St. Est. $40,000.

GARAGES

PROPOSED WORK

Conn., Greenwich—C. F. McKeever, 31 West Putnam Ave., plans by Fletcher-Thompson, Inc., 1336 Fairfield Ave., Bridgeport, 2 story, 50 x 100 ft., brick, steel service station addition. $40,000.

Conn., Greenwich—Town sketches by C. W. Hubbard, 115 Greenwich Ave., 1 and 2 story, brick, steel municipal garage, Mianus St. $40,000 or more.

N. J., Union City—Owner, c/o J. G. Helmers, archt., 147 Summit Ave., Jersey City, rejected bids 2 story, basement, brick, steel garage. $150,000. Noted Oct. 29.

N. Y., Brooklyn—B. Greenberg, 4902 Foster Ave., sketches by S. F. Oppenheim, 26 Court St., 1 story, 95 x 150 ft. service garage, Malta St., Louisiana and Hegeman Aves. $40,000.

N. Y., Brooklyn—F. W. Plate, 3620 Bedford Ave., plans by H. W. Sushan, 367 Fulton St., 75 x 100 ft. service garage, gas station, 20th Ave. and 57th St.

N. Y., New York — Five Hundred Fourteen West 23rd St. Corp., 100 Southern Blvd., will let general conrtact Apr. 1, 4 story, 98 x 122 ft. garage and storage, 514 West 23rd St., $150,000. Bids in. R. G. Cory, 30 Church St., archt. Noted Dec. 10.

Wash., Bellingham—North Coast Transportation Co., W. D. Shannon, engr., 810 Skinner Bldg., Seattle, constructiong right-of-way west side of Boulevard, incl. rock bulkhead, guard rails, concrete curb. $20,000.

BIDS ASKED

Mass. Springfield—General Electric Realty Corp., River Rd., Schenectady, N. Y., bids about Feb. 1, 2 story, 100 x 125 ft., brick, steel sales and service building, 278 King St. $250,000. Private plans. Noted Dec. 17.

N. J., Newark — Feb. 1, by G. E. Jones, archt., 24 Commerce St., general contract 1 story, basement, brick, steel garage, office, Lister Ave. and Esther St., for International Excavating Co., 537 Raymond Blvd. $150,000. Noted Jan. 21.

CONTRACTS AWARDED

Calif., Long Beach—City Council, general contract 3 story, basement, 60 x 120 ft., rein.-con. utility building, to C. W. Pettifer Co., Inc., 733 West 14th St., $72,750; heating and ventilating, to Hickman Bros., 910 East Anaheim St., $4,746; plumbing, to Glaser Electric Co. Noted Jan. 7.

Calif., Santa Ana—M. Medlock, 820 North Main St., 1 story, 115 x 121 ft., brick, stucco, tile, cast stone, terrazzo, concrete, steel garage and sales room to L. R. Wilson, Box 793. Est., $40,000. Noted Jan. 21.

POWER PLANTS

PROPOSED WORK

Ia., Mason City—See "Power and Lighting."

Ky., Mt. Sterling—City will not build power plant. $150,000. Project abandoned. Burns & McDonnell Eng. Co., 400 Interstate Bldg., Kansas City, Mo. engrs. Noted Oct. 1.

Missouri, Wisconsin, etc. — North American Co., 60 Bway., New York, F. L. Dame, pres., program approved by Bd. Directors for 1932 includes $19,000,000 for construction by subsidiary companies operating in Missouri, Wisconsin and Middle West.

N. Y., Ossining — Commissioner Correction, State Office Bldg., Albany, heating power house, knit shop, etc., Sing Sing Prison, to Chippewa Plumbing Co., 270 Chicago St., Buffalo, $318,500. This corrects report in Jan. 21 issue.

O., Cleveland — Ohio Chemical & Mfg. Co., 1177 Marquette St., plans by Mayer & Valentine, Plymouth Bldg., and take bids about March, altering power plant. $40,000.

SHOPS AND FOUNDRIES

PROPOSED WORK

Neb., Lincoln—SHOP—State Bd. Control, O. R. Shatto, secy., soon takes bids 1 story, 50 x 120 ft. license plate shop building at State Reformatory. G. Miller, reformatory supt. $50,000.

N. J., Trenton — SHOP — State Bd. Educ., State House, recalled bids to have been opened Jan. 21, 2 story, basement, brick, steel, at New Jersey State School for Deaf. $75,000. Guilbert & Betelle, 20 Branford Pl., Newark, archts. Project abandoned, appropriation rescinded. Noted Jan. 14.

Ont., Toronto — REPAIR and MACHINE SHOP—City plans by Craig & Modill, 96 Bloor St. W., Toronto, 2 story, concrete, brick, steel repair and machine shop for motor vehicles of Fire Dpt. $85,000.

BIDS ASKED

N. Y., Middletown—SHOPS—See "Contracts Awarded."

CONTRACTS AWARDED

N. Y., Middletown—SHOPS—New York, Ontario & Western Ry., W. C. Heidenthal, ch. engr., Middletown, repairing several shop buildings damaged by fire, day labor. Carpenter shop, car repair shop, completely destroyed (exceed $200,000) will not be rebuilt until late November. Noted Jan. 14.

WAREHOUSES

PROPOSED WORK

Calif., San Francisco—California State Harbor Comn., Ferry Bldg., rein.-con. cotton terminal, Berry St. $300,000. F. G. White, Ferry Bldg., engr.

Ill., Chicago—International Business Machines Corp., 323 West Madison St., plans by N. Max Dunning, assoc. archt., 306 South Wabash Ave., and C. H. Higgins, archt., 109 North Dearborn St., and takes bids about Jan. 29, general contract remodeling warehouse and showrooms, 231-35 West Madison Ave. To exceed $100,000.

Mass., Cambridge — F. H. Newton Co., 34 Cameron Ave., rebuilding warehouse, Cameron Ave. $50,000. Architect not appointed.

Pa., Wilkes-Barre—E. A. Bump, archt., c/o Swift & Co., 90 North Market St., Boston, Mass., soon lets contract 2 story, basement, 85 x 100 ft., rein.-con., brick, steel warehouse, plain found.

BIDS ASKED

Conn., Bridgeport—See "Contracts Awarded."

N. Y., Jamaica—W. Hurwitz & Sons, 92-25 160th St., bids about July 1, general contract 3 story factory and storage, 160th St. and Jamaica Ave. $40,000. J. Fine, 1773 Pitkin Ave., archt. Noted Dec. 24.

CONTRACTS AWARDED

Calif., Los Angeles—Ralphs Grocery Co., 926 West 7th St., 1 story, mezzanine, 80 x 195 ft., warehouse and market building, cast stone, plastered exterior, ornamental iron, plate glass, cement damp proofing, metal lath, metal doors, structural steel, electric and insulated refrigeration, electric elevator, electric ceiling fans, drinking fountains, storage water heater. 7813-21 South Vermont St., to S. N. Benjamin, 718 East 16th St.. Est., $44,000.

Conn., Bridgeport—J. J. Leon, 489 East Main St., 1 story, concrete warehouse plant addition, East Main St., day labor. $40,000. Private plans.

Conn., New London—J. Twomey, 57 Garfield Ave., 2 story, brick storage and loft, Bank St., to M. L. O'Connell, 321 Pequot Ave. Est. $40,000.

Mass., Somerville — First National Stores, Inc., 5 Middlesex Ave., 1 story, 50 x 300 ft. and 35 x 220 ft., brick, rein.-con. food warehouse, salvage building, loading platforms, meat platform, to Turner Constr. Co., 137 Newbury St., Boston. Est. $150,000. Noted Jan. 14.

Mont., Missoula—Northern Pacific R.R. Co., St. Paul, Minn., E. Blum, ch. engr., 6,200 ton ice house, incl. 500 ft. platform, to Morrison-Knudseln Co., Boise. $41,000.

O., Cincinnati—Cincinnati Union Terminal Co., Temple Bar Bldg., 2 story, steel, concrete mail and express buliding, to James Stewart Co., Inc., 230 Park Ave., New York, $498,105. Est. $700,000. Noted Dec. 31.

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CONSTRUCTION NEWS

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WATERWORKS

PROPOSED WORK

Ill., Moline—City, H. Huey, mayor, bids in spring filtration and sedimentation beds, new 3 m.g. storage tank, repairing 1 m.g. storage tank, new aerators, structures, pump equipment. $350,000 bonds voted. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, engrs. Noted **Nov. 26.**

Ill., Peoria Heights (Peoria P. O.)—City, c/o P. R. Meyer, clk., well, pumps, 100,000 gal, tank on tower, pump house, 1 mi. 14 in. c.i. mains. $100.00. Bids soon on test wells. W. A. Fuller Co., 2916 Shenandoah Ave., St. Louis, Mo., engrs.

Ia., Perry — Preliminary surveys filtration plant. $20,000-$30,000. Howard R. Green Eng. Co., Bever Bldg., Cedar Rapids, engrs.

Mass., Attleboro — Preliminary plans waterworks improvements at West Mansfield section. $50,000. **Maturity during 1933.** J. J. Van Valkenburg, Irving Sq., Framingham, engr.

Mass., Burlington — Town plans completed water supply. $175,000. Whitman & Howard, 89 Broad St., Boston, engrs.

Mo., Louisiana—City, waterworks distribution system. Preliminary discussions under way.

O., Cleveland—Bids in spring 24 in. c.i. main in Green Rd. from Warrensville to Kinsman Rd., in Beachwood Village. $55,000. L. A. Quayle, City Hall, ch. engr.

O., Cleveland—City, large intake tunnel for projected Nottingham Pumping and Filtration Plant, incl. construction of tunnel screen well and sinking shafts, $2,000,000; 300 x 320 ft. rein.-con. high service reservoir at Parma, $400,000. L. A. Quayle, City Hall, ch. engr.

Ore., Salem—City, H. M. Rogers, engr., receiving plans and estimates from engineers for new waterworks. City prefers gravity system from North Santiam River. $2,500,000. Noted Dec. 31.

Pa., Altoona—City Council, 585 m.g. reservoir, 1,300 ft. long in Mill Run Valley, connected to Oakton reservoir by gravity supply main 20 in. diam. Council members taking proposition under advisement. $1,500,000. S. B. Taylor, dir. Parks & Pub. Property Dpt. Fuller & McClintock, Pennsylvania Bldg., Phila., engrs. Noted June 26.

Pa., Erie—Water storage and pressure tower on southern line of city, also main extensions to serve southeast section, 20 in. feeder present main to new storage near Wattsburg Rd. and return 1.4 mi. 12 in. main to new school. $100,000. A. N. Aitken, City Hall, engr.

Tex., Arp — Preliminary plans waterworks. Address C. R. Wilson, Arp, chn. Building Bd.

Wash., Tacoma—Soon takes bids Hood St. Pumping Station, equipment, $40,000; 1,880 ft. 30 in. electric-welded steel pipe from Hood St. Pumping Station to distribution system, $25,600; extending 3,590 ft. 42 in. present Wells pipe line to Hood St. Reservoir, $59,600; duplication of "gravity line," consisting 6,280 ft. 48 in. electric-welded steel pipe, $159,600; 4 deep wells for additional supply of not less than 20 m.g.d. $100,000; rein.-con. sewage tank, $5,000. W. A. Kunigk, Tacoma, engr.

Wash., Yakima — City, 24 in. pipe from Naches Heights to Yakima. $80,000. N. A. Gilman, supt.

Wis., Neenah — City, H. S. Zemlock, clk., water softening plant and equipment. Engineer not appointed.

BIDS ASKED

Calif., Los Angeles—See "Streets and Roads."

Calif., Pasadena—Mar. 1, by B. Chamberlain, city clk., City Hall, Pine Canyon Dam and appurtenant works in San Gabriel Canyon, incl. gravity section dam 240 ft. high, 750 ft. crest length, $4,000,000. Separate contracts to be let for cement, reinforcing steel; hydraulic valves, other materials, $1,300,000. S. B. Morris, City Hall, engr. Noted Jan. 28.

Ill., Elgin—Bids about Mar. 19, well houses, 2 deep wells, reservoir, high lift pumps. $350,000. Alvord, Burdick & Howson, 20 North Wacker Dr., Chicago, engrs. Bids taken on 2 pumps, contractor will be announced later.

Ill., Flora—Feb. 12, by City Council, new water supply, incl. 5.5 mi. 12 in. c.i. pipe, river pump house, filter plant, pumps, transmission line. $150,000. A. C. Stanfield, Pana, consult engr.

Ky., Versailles—City Council bids about Apr. 1, 6 mi. 8 in. c.i. pipe, electric motor driven pumps, 250 g.p.m. centrifugal pumps, 60 hp motors, automatic control, 500 ft. head for auxiliary raw-water supply to furnish water in dry weather to filters at spring in city. $50,000. H. K. Bell, Lexington, engr. Noted Nov. 19.

La., Morgan City—Feb. 10, by Mayor and City Council, waterworks and electric power plant, incl. 6,300 ft. 10 in. and 1,500 ft. 6 in. Class B c.i. pipe, plumbing machinery, motors, tanks. Swanson-McGraw, Inc., 430 Balter Bldg., New Orleans, engrs. Noted Jan. 21.

Mass., Worcester—See "Contracts Awarded."

Mich., Marquette—Feb. 23, by City, altering and constructing additions to waterworks, incl 1,510 ft. 16 in. and 830 ft. 12 in. distributing main, removing existing boilers, pumps, etc., furnishing all piping and 3 new pumps. $60,000. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, Ill., engrs. Noted Jan. 14.

Minn., Bemidji—Feb. 15, by City, B. Bentley, clk., developing underground water supply with guaranteed capacity of 1 m.g. daily, complete with pumps. Former bids rejected. Jan. 7.

Miss., Greenville—Feb. 16, by City Council, drilling, constructing, installing well and electric driven turbine pump, 1,750 g.p.m. capacity, for lifting water from well into reservoir. F. Hall, Greenville, engr.

Neb., Lincoln—Feb. 10, by T. H. Berg, city clk., one 11½ m.g.p.d. and one 5 m.g.p.d. steam turbine driven pumping units for A. St. Pumping Station. $40,000. D. L. Erickson, city engr.

Neb., Omaha—See "Contracts Awarded."

N. Y., Creedmoor—Feb. 17, at office Dpt. Mental Hygiene, State Office Bldg., Albany, completing Contr. 1253, driven wells, Brooklyn State Hospital, Creedmoor Div. F. W. Parsons, comr.; adv. E. N.-R. Feb. 4.

N. Y., Warwick — Feb. 16, at office Dpt. Social Welfare, State Office Bldg., Albany, C. H. Johnson, comr., furnishing, delivering c.i. pipe, vitr. pipe, hydrants, valves, etc., at New York Training School for Boys; adv. E.N.-R. Feb. 4.

Pa., Wilmerding — Pennsylvania Water Co., South Ave., Wilkinsburg, J. Miller, in charge constr., taking bids general improvements, incl. pump station improvements. Private plans.

CONTRACTS AWARDED

Colo., Pueblo—Bd. Corrections, c/o T. A. Duke, 511 West 13th St., installing 3 water softeners at state hospital, to Elgin Softener Co., Elgin, Ill. Est. $15,000.

Ga., Macon — City Water Comn., installing pumps and stokers at city pumping station, to Burford, Hall & Smith, 140 Edgewood Ave. N. E., Atlanta, $27,790.

Md., Baltimore — Bd. Awards, furnishing, erecting pumping equipment for Pikesville Automatic Pumping Station, to Baltimore Machine Wks., 111 South Paca St., $9,775. Noted Jan. 14.

Mass., Fall River — Eastern Massachusetts Street Railway Co., 38 Chauncy St., Boston, 56,000 gal. steel water tank, Stafford Rd., to New England Tank & Tower Co., 42 Main St., Everett.

Mass., Worcester—City, L. A. Goodale, water comr., City Hall, increasing capacity of Quinapoxet Reservoir, incl. dam, etc. $250,000. Owner bulids. R. G. Lingley, City Hall, engr. Noted Nov. 26.

Neb., Ashland—State, new stone pump house, insulated roof, reservoir and 5 well houses, near Platte River, to A. A. Dobson Co., 824 1st Natl. Bldg., Lincoln, $68,780.

Neb., Lincoln—City, tapping 36 in. main line from Ashland to Lincoln to connect with substations at University Pl. and X St., to Eureka Constr. Co., Lincoln. $29,716. Est. $30,000.

Neb., Omaha — Metropolitan Utilities Dist., Harney and 18th Sts., will build 6 filter beds, giving plant 70 m.g.p.d. capacity, day labor. Private plans.

Pa., Lancaster—F. W. Metzger, mayor, City Hall, general contract new filter plant, to D. S. Warfel, Inc., 452 North Prince St., $429,812; plumbing to Frank P. Simpson, 429 Manor St. $5,004; electrical work, to H. W. Knottman, Lancaster, $14,500; filter equipment, to American Water Softener Co., 4th St. and Lehigh Ave., Phila., $84,573. Grand total $538,889. Noted Jan. 7.

SEWERS

PROPOSED WORK

Calif., Orange—City Council preliminary plans sewer in North Parker St., and from Palm Ave. to Batavia St., north on Batavia St. to Walnut St. to Parker, then north on Parker St. to Clark St. To exceed $25,000.

Some of the Week's Large Projects

For further details turn to appropriate sections in this issue

Location	*Project*	*Cost*	*Status*
Waterworks			
Cleveland	Intake tunnel, etc	$2,000,000	Proposed
Altoona (Pa.)	Reservoir, etc	1,500,000	Proposed
Federal Government			
Fayetteville (Ark.)	Veteran's hospital	1,500,000	Proposed
Washington	Apex building	3,000,000	Proposed
Illinois	Dredging, retaining walls, etc	2,400,000	Proposed
Jefferson Barracks (Mo.)	Veteran's hospital addition	1,200,000	Proposed
Albany (N. Y.)	Post office	1,850,000	Proposed
Factories and Mills			
Los Angeles	Assembling plant	2,000,000	Contract
Buildings			
Chicago	Telephone exchange	5,400,000	Contract
Bismarck (N. D.)	Capitol	2,000,000	Proposed
Flushing (N. Y.)	Residences, etc	1,000,000	Day labor and separate contracts

See proposal advertising on page 93

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No Caulking

Sewers **(Continued)**

Ill., Bushnell — City, Bd. Local Impvts., L. Miller, pres., sewage disposal plant, septic tank, sludge beds. $30,000. Caldwell Eng. Co., Jacksonvile, engrs.

Ill., Chicago—J. J. Sullivan, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., cancelled bids to have been opened Jan. 21, furnishing, constructing sludge filtrating and drying unit with sludge concentration tank 35 ft. diam., 15 ft. deep, with mechanical thickening mechanism, vacuum type filter complete, vacuum sludge pumps, 96 in. rotary dryer, 70 ft. long, complete with stoker, brick, settling conveyor, coal and ash handling equipment, piping, auxiliary apparatus and equipment, also furnishing, constructing 52 x 110 ft. steel frame, corrugated sheet iron building, 40 ft. high for same, in Stickney. $500,000. May advertise later when financial condition of Sanitary Dist. is improved. E. J. Kelley, chn., 910 South Michigan Ave. Noted Dec. 7.

La., New Orleans—Sewerage & Water Bd., constructing rein.-con. canal and connections in Orleans Relief Canal, and Pumping Station 7. $30,000; culvert over St. Claiborne Ave. Canal at Hamilton to replace bridge, $15,000.

Mich., River Rouge—City preparing plans monolithic concrete sewer, incl. 48- to 60-in. pipe, connections, manholes, etc. $200,000. Mason L. Brown & Son, 120 Madison Ave., Detroit, engrs. Noted Dec. 17.

Mo., St. Louis—Preliminary plans sewers of brick laid in portland cement mortar, segmental brick and vitr. clay pipe, in Maline Creek Sewer Dist. 2, bounded by McLaran and Goodfellow Aves., Keifer and Howel Sts. $28,350. W. W. Horner, city engr.

N. Y., Scarsdale—Bd. Village Trustees, Village Hall, bids in February sewage pumping station on Fenimore Rd. between Bronx River Parkway and Bronx River. $35,000. A. Boniface, Village Hall, engr.

Okla., Oklahoma City—City sanitary main relief sewer in Virginia Ave. $28,000. L. M. Bush, City Hall, engr.

R. I., Bristol — Town Sewer Comn., W. T. Dwyer, secy., sewage disposal plant at Oliver and Thames Sts. $225,000. H. K. Barrows, 6 Beacon St., Boston, engrs.

R. I., Pawtucket—For 500 ft. 12 in. sewer in Schofield St., $3,300; 1,100 ft. 12 and 15 in. in Walcott St., $7,800; 500 ft. 12 in. in Ashton St., $3,400; 700 ft. 8 in. watermains in Daggett Ave. $5,400.

Tex., Arp—Preliminary plans, sanitary sewerage system. Address C. R. Wilson, Arp, chn. Building Bd.

Tex., Gilmer—Improvements and extensions to sanitary sewage disposal plant. $16,000-$25,000. Mostly materials. Address L. N. Coe, mayor.

Wis., Green Bay—Intercepting and sewage disposal plant. $750,000. Jerry Donohue Eng. Co., Sheboygan, making surveys. Alvord, Burdick & Howson, 20 North Wacker Dr., Chicago, Ill., engrs. Noted Jan. 14.

Wis., Neenah—City, H. Zemlock, clk., 15,000 ft. storm sewer in various wards. $25,000. A. G. Prunuske, Neenah, engr.

Wis., Oshkosh—Sewage disposal plant. $250,000 bonds voted. G. Randall, city engr.

Que., Hull — City Council bids early this month, sewers in Ward A and in Wrightville. $44,500.

BIDS ASKED

Calif., Los Angeles—See "Streets and Roads."

Conn., Greenwich—Feb. 10, by Sewer Comrs., Town Bldg., reconstructing sludge drying beds at Old Greenwich Sewage Disposal Works, Sewer Dist. 1. S. E. Minor & Co., Inc., Smith Bldg., engrs.: adv. E. N.-R. Feb. 4.

D. C., Wash.—Feb. 16, by District Comrs., District Bldg., sewers.

Md., Baltimore—Feb. 10, by Bd. Awards, sanitary sewers and storm drains in Storm Water Contr. 171, incl. 819 lin.ft. 6 ft. x 4 ft. and 3 x 8 ft. rectangular concrete pipe drain, 850 lin.ft. vitr. pipe drain, 5,300 lin.ft. 8 in. vitr. c.i. pipe. G. E. Finck, Municipal Bldg., sewerage engr.

Minn., Hibbing—See "Contracts Awarded."

Mo., St. Louis—Feb. 23, by Bd. P. Serv., City Hall, DeBaliviere Avenue Public Sewer, incl. open cut of 12 ft. rein.-con. horseshoe or in tunnel of brick 11½ ft. in diam., 1,120 ft. long with manholes, connections, etc. **$69,480**; extending South Harlem Public Sewer, 620 ft. long, $21,000. W. W. Horner, city engr.

Mo., St. Louis—See "Contracts Awarded."

New York—Feb. 16, by Bd. Transportation, J. H. Delaney, chn., New York, furnishing, installing drainage equipment for Line D from 8th to Roosevelt Aves. and Line E from Nassau Ave. to Queens Plaza forming part Independent System of City-owned Rapid Transit Railroads in Manhattan, Queens and Richmond Boros.

N. Y., Camillus — Feb. 11, by Bd. Village Trustees, sanitary sewerage system and treatment plant; furnishing, installing machinery and equipment in pump house of sewerage system. Allen & Holmes, 604 Sedgewick, Andrews & Kennedy Bldg., Syracuse, engrs.; adv. E.N.-R. Feb. 4. Noted Jan. 21.

Ore., Forest Grove—See "Contracts Awarded."

CONTRACTS AWARDED

Ind., Winchester—B. E. Hinshaw, city clk., sewage treatment plant, to R. McCalman, Inc., Danville, Ill.; sewer work and pumping station, to J. Palmer, Danville, Ill. Est. $70,000. Noted Dec. 7.

Mass., Fall River—City, Dpt. P. Wks., extending sewers, sewerage outlets, to Trimount Dredging Co., 10 State St., Boston. Est. $25,000.

Minn., Hibbing—Village, 3,000 lin.ft. storm sewer, day labor. $35,000. H. F. Dear, village clk.

Mo., St. Louis—Bd. P. Serv., City Hall, foul water sewer below Maline Creek Channel from Mississippi River to Water Works, conduit right-of-way known as Sect. A-2, Maline Creek Public Sewer, to S. Kraus Co., 645 Edmund St., $13,596; brick, concrete comfort station in Fairgrounds Park, to Voepel Building Co., 1113 Sidney St., $8,769. Noted Dec. 24.

Mo., St. Louis — City, repairing landslide damage near Morganford Rd. and Arsenal St. for River Des Peres Drainage System, own forces. $68,720. W. W. Horner, city engr. Noted Dec. 17.

O., Cleveland—For 6,168 ft. 6 to 9 ft. 6 in. brick, Circular E sewer in East 82nd and East 83rd St. from Euclid Ave. to Buckeye Rd., to A. L. Connelly Co., 1900 Euclid Bldg., $419,973; 550 ft. 5 ft. Circular E brick sewer in Westchester Ave. from East 98th to East 103rd Sts., to Carroccio & Gaudio, 14109 Benwood Ave., $15,411; sewer in Union Ave. from East Blvd. to East 116th St., to D. Nero, 1424 Lakeview Rd., $20,625. Grand total **$456,009.**

Ore., Forest Grove—City, extending sewerage system, day labor. H. F. Price, city engr.

Ont., Midland—Town, 8 in. and up, vitr. tile sewers in various streets. $25,000. D. A. Patchell, Midland, engr.

WASTE DISPOSAL

PROPOSED WORK

Wis., Kenosha—City completed plans incinerator. $50,000. **Maturity in 1933.** Alvord, Burdick & Howson, 20 North Wacker Dr., Chicago, Ill., engrs.

BRIDGES

PROPOSED WORK

Calif., Petaluma—City bridge, probably Bascule type, over Petaluma Creek at D. St. To exceed $25,000. L. H. Nishkian, 525 Market St., San Francisco, engr.

Calif., Stockton—Bd. Supervs. San Joaquin Co. Garwood Ferry Bridge, incl. 1,100 cu.yd. excav., 10,720 lin.ft. piles in foundation, 13,200 lin.ft. protection work, 825 cu.yd. Class A, 460 cu.yd. Class B, 5 cu.yd. Class E concrete. 56 tons reinforcing and 270 tons structural steel. To exceed $50,000. J. B. Manthey, Stockton, co. surv.

La., Harvey—Texas & Pacific R.R. Co., Dallas, Tex., E. F. Mitchell, ch. engr. bridge found. consisting two 27 x 69 ft. and two 20 x 48 ft. concrete piers 30 ft. high, incl. 2,500 cu.yd. concrete. H. G. Lytell, New Orleans, engr.

Maine—State, Hy. Dpt., Augusta, steel, concrete bridge between Waterville and Oakland. $25,000 or more.

Maine and New Brunswick—Chamber of Commerce, Calais, Me., and Directors Bd. Trade, St. Stephen, N. B., toll bridge between Calais, Me., and St. Stephen, N. B. To exceed $25,000.

Mass., Cambridge—Commonwealth of Massachusetts, Dpt. P. Wks., Boston, circle and approach, Cottage Farm Bridge, Memorial Dr. $25,000 or more. A. W. Dean, Dpt. P. Wks., Boston, engr.

Mass., Cambridge—Commonwealth of Massachusetts, Dpt. P. Wks., State House, Boston, A. W. Deane, engr., bridge, parkway extension at Fresh Pond Parkway. To exceed $25,000.

Mass., Quincy — Commonwealth of Massachusetts, Dpt. P. Wks., Boston, extending bridge, Washington St. $25,000-$35,000. A. W. Dean, Dpt. P. Wks., Boston, engr.

Mass., Quincy — Commonwealth of Massachusetts, Dpt. P. Wks., State House, Boston, A. W. Deane, engr., new concrete bridge, hy. approaches, Shore Dr. To exceed $25,000.

N. J., Keasbey—State Hy. Comn., Trenton, 4,270 ft. new bridge over Raritan River. Engineer not appointed.

N. Y., New York—Dpt. Plant & Structures, Municipal Bldg., sketches reconstructing footwalk Manhattan Bridge. $55,000.

N. D., Ellendale—State Hy. Dpt., Bismarck, surveys 250 ft. concrete bridge, 24 ft. wide across James River. $35,000.

O., Cleveland—Bd. Comrs. Cuyahoga Co. rein.-con. bridge over Chippewa Creek. $30,000. A. M. Felgate, Court House, engr.

BIDS ASKED

Calif., Towle—Feb. 10, by State Hy. Comn., Sacramento, undergrade crossing under Southern Pacific R.R., incl. two concrete abutments with wing walls, Placer Co. C. H. Purcell, hy. engr.

Georgia—Feb. 10, by J. W. Barnett, state hy. engr., East Point, 4 bridges on Clyde-Savannah Rd., State Aid Project 591-A, Bryan Co.; bridge on Dahlonega-Blairsville Rd. over Nottely River, State Aid Project 310, Union Co.

Maryland—Feb. 9, by State Roads Comn., Baltimore, G. C. Uhl, chn., substructure, approaches for proposed bridge over Monocacy River, Contr. F-159-57, Frederick Co.; adv. E. N.-R. Feb. 4.

Michigan—Feb. 9, by H. W. Hagaman, div. engr., at office County Road Comn., R.Br. 1 of 73-23-14, Contrs. 3 and 4, three 65 ft. spans, steel deck girder superstructure, 2 rein.-con. abutments, semi-gravity type, 30 ft. roadway, two 5 ft. sidewalks over Swan Creek, Saginaw Co., for State Hy. Comn., Lansing.

Michigan—Feb. 10, by A. L. Burridge, div. engr., Cadillac, F.Br. 2 of 20-2-4, Contrs. 2 and 3, one 60 ft. span steel deck girder superstructure, 2 rein.-con. abutments of semi-gravity type, 30 ft. roadway, two 2½ ft. sidewalks over Manistee River, Crawford Co., for State Hy. Comn., Lansing.

Neb., Columbus—Feb. 17, by C. H. Hoge, clk. Platte Co., two 24 ft. I-beam bridges, Monroe Twp.—one 34 ft. I-beam bridge, Joliet Twp.—reconstructing 20 ft. I-beam bridge, steel bridge and constructing 16 ft. I-beam bridge, Woodville Twp.—one 5 x 5 ft. concrete box culvert, and one 28 ft. I-beam bridge, South Walker Twp.—one 5 x 5 ft. concrete box culvert and one 24 ft. I-beam bridge, Burrows Twp.—two 16 ft. and one 24 ft. I-beam bridges, Humphrey Twp.—one 16 ft. I-beam bridge and one 5 x 5 ft. concrete box culvert, Grand Prairie Twp.—one 28 ft. I-beam bridge, Creston Twp.—one 16 ft. I-beam bridge, Sherman Twp.—two 20 ft. I-beam bridges, Lost Creek Twp. — one 80 ft. truss bridge, 8,000 cu.yd. channel change, Bismark Twp. L. W. Weaver, Court House, co. engr. $30,080.

Oklahoma—Feb. 9, by State Hy. Dpt., Oklahoma City, 9 span 166 ft. rein.-con. bridge at Temple, Cotton Co. $25,000—10 span 178 ft. rein.-con. trestle at Watts, Adair Co. $28,000—widening Arkansas River Bridge to total width 68 ft., with additional piers, car tracks, at Tulsa, Tulsa Co. $250,000. C. L. Wilson, hy. engr.

Virginia—See "Streets and Roads."

Wash., Newport—See "Streets and Roads."

Wash., Seattle—Bd. Comrs. King Co., bids about Mar. 19, 450 ft. steel cantilever arch type bridge supported by central steel column 135 ft. high span to have 7 per cent grade. $85,000. T. D. Hunt, Seattle, engr.

CONTRACTS AWARDED

Ala., Birmingham—City, 100 ft. rein.-con. viaduct with 50 ft. roadway and two 10 ft. sidewalks over Southern Railroad and St. Louis-San Francisco Ry. tracks at 11th Ave. N. at 27th St., to Christie, Hutchinson & Burton, 113 North 3rd Ave., $12,877. Noted Oct. 22.

Calif., Redondo Beach—C. C. Mengold, city clk., 103 ft. Class A rein.-con. viaduct, 44 ft. roadway, 5 ft. sidewalks, to Atlas Constr. Co., 39 Congress St., Pasadena, $13,475. Noted Nov. 19.

Calif., Sorento—San Diego Co., Court House, San Diego, 10 span 300 ft. rein.-con. bridge, 40 ft. wide over Sorento Creek, to R. E. Hazard Constr. Co., 2548 Kettner Blvd., San Diego, $40,421. Noted Jan. 7.

Calif., Ukiah—C. H. Purcell, engr. State Hy. Comn., Sacramento, 100 ft. steel pony truss bridge on concrete piers, fourteen 19 ft. timber approach spans on redwood pile bents over Russian River, 3.5 mi northeast of here, Mendocino Co., to A. Helwig Constr. Co., 115 South Main St., Sebastopol, $32,359. Noted Dec. 17.

Ill., East St. Louis—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Iowa—State Hy. Comn., Ames, 14 box culverts in Adams Co., to J. J. Grose, Des Moines, $3,997—2 I-beam bridges, 1 pony truss bridge, 27 culverts, extensions, Carroll Co., to Brennen Bros., Lansing, $26,397—widening deck girder bridge, Dallas Co., to A. Melberg, Cedar Rapids, $2,100—18 box culverts, extensions, 14 concrete pipe culverts, Dallas Co., to C. W. Boltz, Des Moines, $8,464—raising, extending 50 x 24 ft. I-beam bridge, Winneshiek Co., to Frank Russell & Son, Waukon, $2,950. Grand total $43,909. Noted Jan. 14.

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Bridges (Continued)

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, structural steel superstructure for single 200 ft. span bridge over Patuxent River, Contr. AA-133-87, Anne Arundel Co., to Pittsburgh-Des Moines Steel Co., Neville Island, Pittsbugh, Pa., $18,544 — substructure for same bridge, Contr. AA-121-87, to H. W. Kaylor, Hagerstown, $18,700 — concrete flooring for single 100 ft. span bridge (now under construction), over Deer Creek, Contr. H-142-44, Harford Co., to T. B. Gatch Building & Con. Corp., Belair Rd., Baltimore, $1,860. Grand total $39,104. Noted Jan. 14.

Ohio—O. W. Merrell, dir. hys., Columbus, four 37 ft. span, creosoted timber bridge with steel stringers over Elk Creek, Sect. "B" Eaton-Middletown Rd., Butler Co., to Bragg Constr. Co., Alliance, $11,980 — 75 ft. span concrete bridge with steel stringers over Outlet Ditch, Sects. "K" and "H-2" Findlay-Upper Sandusky Rd., Hancock Co., and 60 ft. span, concrete beam bridge, 30 ft. roadway over south branch Portage River, Sect. "A-2" Baltimore-Fostoria Rd., Hancock Co., to Frost Constr. Co., 801 East Main St., Findlay, $27,800 and $12,920 respectively—70 ft. span, concrete beam bridge with steel stringers over Tawawa Creek, Sect. "A-2" Urbana-Sidney Rd., Shelby Co., to H. A. Balmert, Celina, $13,420—two 14 ft. span, one 17.6 ft. span continuous concrete slab bridge, and four 70 ft. span steel I-beam bridge, over Chagrin River, Sects. "B" and "C" Painesville-Euclid Rd., Lake Co., to Purdy Constr. Co., 173 West 2nd St., Mansfield, $63,884—16 ft. span concrete slab bridge, 24 ft. roadway and 20 ft. span concrete slab bridge with girder rail, 24 ft. roadway, Sect. "A" Fostoria-Millbury Rd., Seneca and Wood Counties, to B. & O. Supply Co., 322 North Grove St., Bowling Green, $10,174—two 50 ft. span concrete beam bridge over Riley Creek, Sect. "I" and "Pandora" Findlay-Delphos Rd., Putnam Co., to N. A. G. Sunday, Antwerp, $12,439—two 36 ft. span concrete beam bridge, 34 ft. roadway, two 3 ft. sidewalks over Sugar Creek, Sect. "Smithville" Akron-Wooster Rd., Wayne Co., to Elmer Vogt Paving Co., 846 Wellman Ave., Massillon, $14,610—55 ft. span concrete beam bridge over Lick Creek, 24 ft. roadway, and 34 ft. span concrete bridge with steel stringers over branch of Lick Creek, 16 ft. roadway, Sect. "A" Bryan-Edgerton Rd., Williams Co., to J. A. Elder, Bryan, $17,004. Grand total $184,231. Noted Jan. 14.

Texas—G. Gilchrist, state hy. engr., Austin, 6 rein.-con., steel girder bridges and 7 concrete box culverts, Hy. 17, State Project 516-B, Jeff Davis Co., to T. J. Johnson, 522 North Texas Bldg., Dallas, $44,186. Est. $40,000.

Man., Winnipeg—City, replacing 6 span, 516 ft. timber bridge with rein.-con. cantilever type bridge, Assinaboine Park, St. James, to Carter-Halls-Aldinger, 400 Royal Bank Bldg., $56,963.

STREETS AND ROADS

PROPOSED WORK

Tex., San Antonio—Bexar Co. plans hy. improvement, incl. new roads, straightening and widening some of present hy. bridges, hardsurfacing, graveling on laterals, etc. State has agreed to supply $3,582,203 provided county votes $5,000,000 bond issue, making total $8,582,203 for entire job. E. P. Atneson, Gunter Bldg., resident engr. W. E. Goodman, Court House, co. engr.

BIDS ASKED

Calif., Los Angeles—Feb. 10, by Bd. P. Wks., City Hall, removing present pavement, walls, gutters and grading, curbing, guttering, drainage structures, sidewalks, concrete walls, ornamental lighting system, storm and sanitary sewers, 7,119 tons asphaltic base in place, 4,547 tons asphaltic concrete wearing surface, oiled roadway remodeling 1,043 sq.ft., resurfacing 8,751 sq.ft., 6 and 8 in. concrete paving 180,325 sq.ft. Temple St. from Bway. to Parkview and 8,573 tons asphaltic concrete base in place, 4,662 tons asphaltic wearing surface in place, resurfacing 8,713 sq.ft., 6 and 8 in. concrete surfacing 184,457 sq.ft. Temple St. from Grand Ave. to Flower St. To exceed $25,000. J. J. Jessup, City Hall, engr.

Ind., Jeffersonville—Feb. 15, by Bd. Comrs. Clark Co., constructing Walter Schroeder Rd. (Duck Knobb Rd.), Carr and Wood Twps. $72,742. O. B. Fifer, Jeffersonville, co. aud.

Kentucky — Feb. 23, by State Hy. Comn., Frankfort, surfacing 6.5 mi. Cynthiana-Brooksville Rd., Harrison Co.—3.4 mi. Horse Cave-Jackson Highway Rd., Hart Co. — 3.1 mi. Grahampton-Tipton Rd., Meade and Hardin Counties—paving fill slopes on east approach to Spottsville Toll Bridge on Henderson-Owensboro Rd., Henderson Co. B. Johnson, chn.

Maryland — Feb. 9, by State Roads Comn., Baltimore, G. C. Uhl, chn., concrete paving 1.5 mi. Contr. Cl-92-54, Carroll Co.; adv. E. N.-R. Feb. 4.

Michigan—Feb. 9, by A. L. Burridge, div. engr., Cadillac, shaping, grading, drainage structures, concrete surfacing 0.241 mi. MO24-24C-1, Emmet Co., for State Hy. Comn., Lansing.

Michigan—Feb. 9, by J. T. Sharpensteen, div. engr., Escanaba, grading, drainage structures 5.268 mi. FO21-16C1, Delta Co.; 1.189 mi. FO22-26C2, Dickinson Co., for State Hy. Comn. Lansing.

Michigan—Feb. 10, by W. J. Kingscott, div. engr., 309 McNair Bldg., Kalamazoo, grading, drainage structures 2.5 mi. FO39-7C-1, Kalamazoo Co., for State Hy. Comn., Lansing.

Michigan—Feb. 10, by W. J. Kingscott, div. engr., 209 McNair Bldg., Kalamazoo, grading, drainage structures 5.485 mi. FO39-26C-1, Kalamazoo Co., for State Hy. Comn., Lansing.

Michigan—Feb. 11, by H. G. Oakes, div. engr., Plymouth, widening, grading, drainage structures 8.395 mi. MO58-21C-1, Monroe Co., for State Hy. Comn., Lansing.

Michigan — Feb. 18, by H. G. Oakes, div. engr., Plymouth, grading, drainage structures 0.434 mi. FO30-14C-1, Hillsdale and Lenawee Counties, for State Hy. Comn., Lansing.

Minnesota—Feb. 16, by State Hy. Dpt., St. Paul, **(S.P. means State Project and F.A.P. Federal Aid Project)**, concrete surfacing 230,785 sq.yd. S.P. 5-38, Sect. 3, F.A.P. 422-B, S.P. 5-38, Sect. 1, F.A.P. 422-C and S.P. 5-38, Sect. 2; 253,143 sq.yd. S.P. 18-23, Sect. 1. Divs. B and C. F.A.P. 3, Sect. 3, F.A.P. 9. State furnishes cement.

Nevada — Feb. 10, by Directors Dpt. Hys., Carson City, reconstructing 10.58 mi. State Hy. System between Lower Virgin River Bridge and Mesquite, Route 6, Sect. H-1, Clark Co. S. C. Durkee, state hy. engr.

Ohio—Feb. 18, by O. W. Merrell, dir. hys., Columbus, grading, draining, widening with brick 2.503 mi. Sect. "B-1" Mansfield-Ashland Rd., Ashland Co., $77,729—drainage structures 1.651 mi. Sect. "A-1" Sandusky-Clyde Rd., Erie Co., $18,650—new berms, ditches, etc., 6.307 mi. Sects. "J," "I" and "S" Akron-Canfield Rd., Portage Co., $27,361—concrete or brick paving 0.528 mi. Sect. "A" Alliance-Minerva Rd., Stark Co., $26,990 — brick paving 2.586 mi. Sect. "B-2" Lancaster-Kirkersville Rd., Fairfield Co., $106,495 — concrete paving 0.103 mi. Sect. "D-2" Toledo-Angola Rd., Williams Co., $2,537—traffic bound macadam paving 4.258 mi. Sects. "K" and "G-1" Cambridge-Coshocton Rd., Coshocton Co., $77,855—concrete paving 1.912 mi. Sect. "A" Mt. Vernon-Mansfield Rd., Knox Co., $49,853.

O., Cleveland—Feb. 9, by Bd. Comrs. Cuyahoga Co., vitr. brick, granite block, sheet asphalt or concrete paving Green Rd. 7. $98,000. F. Williams, Court House, engr.

Oklahoma—Feb. 9, by State Hy. Dpt., Oklahoma City, concrete slab surfacing 3.11 mi. U. S. Hy. 66 south of Calumet, $66,000—5.1 mi. U. S. Hy. 66 west of Calumet, $100,000—4.5 mi. U. S. Hy. 66 east of Bridgeport, $80,000, all 20 ft. wide, Canadian Co.—grading, drainage structures 8 mi. State Hy. 32, from Temple to Walters, $25,000—8 mi. U. S. Hy. 277 north of Randlett, $28,000—7 mi. U. S. Hy. 277, south of Emerson, $25,000, all 32 ft. wide, Cotton Co. C. L. Wilson, hy. engr.

Texas—See "Contracts Awarded."

Tex., Dallas—Feb. 10, by City, c/o E. Goforth, secy., 7 in. concrete or various types on 6 in. concrete or bitulithic concrete or binder course surfacing Akard St. from Pacific to Cedar Springs Aves.; also on Ross Ave. from Lamar to Leonard Sts. O. H. Koch, Dallas, dir. P. Wks.

Virginia—Feb. 16, by State Hy. Dpt., Richmond, grading, drainage structures, concrete surfacing 0.5 mi. road from point 2 mi. north of Petersburg to Dunlap Overpass, Route 31, Project S-66-EW, Chesterfield Co.—clearing, grubbing, grading, drainage structures, top soil surfacing 0.5 mi. Columbia Dixie Route 19 Rd., Route 19, Sect. S-622, Fluvanna Co.—1.9 mi. Sandy Creek Rd., Route 57, Sect. S-735-EB-2, Halifax Co.—three 40 ft. span rein.-con. beam bridge, 24 ft. roadway over Bent Creek, at Casakie, Route 307, Sect. S-658-B-6, Appamattox Co. H. G. Shirley, hy. engr.

Washington—Feb. 23, by S. J. Humes, dir. Hys., Olympia, grading, crushed stone surfacing 0.4 mi. State Rd. 1, Sect. 1, Chuckanut Creek Bridge Fill in Bellingham and Sect. 2, Clayton Bay Fill, both Whatcom Co.—concrete paving 11.8 mi. State Rd. 3, Umptanum to Hillside, Kittitas Co.—11.5 mi. State Rd. 3, Ellensburg to Umptanum, F.A.P. 125-A, Kittitas Co.

Wash., Asotin—Bd. Comrs. Asotin Co., bids about Feb. 19, gravel surfacing, improving 6 mi. road from Clarkston-Heights to Peola. $40,000. J. Swain, Asotin, engr.

Wash., Olympia — Feb. 15, by Bd. Comrs. Thurston Co., clearing, grubbing, grading, drainage structures, gravel surfacing 3.9 mi. Case Rd. N. R. McKay, 905 5th St. W., Olympia, engr.

Wash., Seattle—Feb. 15, by Bd. Comrs. King Co., grading, drainage structures, concrete surfacing 79,231 sq.yd. 1st Ave. S. extension. $189,000. T. D. Hunt, Seattle, engr.

CONTRACTS AWARDED

Arizona—State Hy. Comn., Phoenix, grading, constructing 4 bridges, placing subgrade stabilizer on Blythe-Wickenburg Rd., Federal Aid Project 98-A, Maricopa Co., to Skousen Bros., Mesa, $149,899.

Ariz., Nogales—City Council, concrete paving Grand Ave. between north line of Bank Bridge and city limit, to Schmidt-Hitchcock Co., P. O. Box 296, Phoenix, $22,895. Est. $28,500.

Calif. Seal Beach—City Council, grading, 6 in. concrete paving 118,000 sq.ft. Central Ave. to Sully-Miller Constr. Co., 1500 West 7th St., Long Beach. $35,395.

Indiana—State Hy. Comn., Indianapolis, improving 14.326 mi. Rd. 25, Federal Aid Project 243-A and B, 18 ft., Carroll and Tippecanoe Counties, to Calumet Paving Co., Gary, $264,765 Est. $391,029. Noted Nov. 12.

Iowa—State Hy. Comn., Ames, grading, drainage structures 6.31 mi. Federal Aid Project 334, Carroll Co., to J. A. Carlson Constr. Co., Omaha, Neb., $25,552; gravel surfacing 5.312 mi. Project 681, Humboldt Co., to Paul & Donnelly, Ft. Dodge, $2,307. Noted Jan. 14 under "Bridges."

Ia., Guthrie Center—Guthrie Co., improving 8.525 mi. Federal Aid Rd. 51-C, to Sargent & Roth, Keystone, $55,718.

Maryland — State Roads Comn., G. C. Uhl, chn., Baltimore, gravel surfacing 6.43 mi. Contr. P-155-84, Prince Georges Co., to Southern Maryland Contg. Co., 20 East Lexington St., Baltimore, $49,431. Noted Nov. 5.

Md., Baltimore—State Roads Comn., gravel surfacing 2.69 mi. hy. from Prince Frederick towards Dare's Wharf, Contr. C-42-84, Calvert Co., to Caton Contg. Co., Halethorpe, $14,679. Noted Dec. 24.

Massachusetts — Dpt. P. Wks., State House, Boston, A. W. Deane, engr., bituminous macadam paving, incl. 740 ft. rein.-con. viaduct and substructure for steel bridge, 13,278 ft. hy. Westfield and West Springfield, to F. T. Ley & Co., Inc., 1215 Main St., Springfield, $191,021. Noted Jan. 21.

Mississippi—State Hy. Comn., Jackson, c/o C. M. Williamson, dir., concrete surfacing Meridian-Livingston Rd., Federal Aid Project 210-A, Lauderdale Co., to Hartman-Clark Bros. Co., 920 Peoria Life Insurance Bldg., Peoria, Ill., $70,304. Noted Jan. 21.

N. Y., New York—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., grading East 242nd St. and Burke Ave., to DePace & Mancini, 418 East 155th St., $3,679 and $1,622 respectively — Eastern Blvd., to Bonomo & Ferracca, 1492 Westchester Ave., $27,141—3½ ft. diam. rein.-con. pipe culvert in White Plains Rd., to M. C. Seelig Co., 44 Court St., Brooklyn, $6,660. Grand total $39,102. Noted Jan. 7.

Texas — State Hy. Dpt., Austin, two 5 ft. shoulders of stone screenings 19.22 mi. Hy. 1 from Ysleta to Fabens, El Paso Co., own forces. $34,483 appropriated. El Paso Co. to furnish 100 right-of-way. G. B. Finley, Balmorhea, div. engr. hy. dpt.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

Colo., Pueblo—H. Donnelly, Florence, drilling artesian wells to irrigate 40,000 acres in western Pueblo and eastern Fremont Counties. Test well completed development of project to start soon.

Massachusetts — Commonwealth of Massachusetts, Dpt. P. Wks., State House, Boston, A. W. Dean, engr., dredging Saugus River, Saugus and Revere. $300,000.

Mass., Boston — City, Transit Dpt., clay blanket in main ship channel, Boston Harbor, 60 ft. wide, 35 ft. elevation below mean low water, along and over route of Traffic Tunnel. To exceed $25,000.

O., Hamilton—Miami Conservancy Dist., Dayton, excavating 400,000 cu.yd. gravel and earth from Miami River Channel and hauling same to spoil banks away from river. $100,000. C. H. Eiffert, ch. engr.

BIDS ASKED

Ala., Birmingham—Feb. 9, by A. J. Hawkins, city engr., City Hall, widening, deepening, straightening 2 mi. Sect. 4, Village Creek, Drain Project from 10th St. W. to 16th St. N., incl. 76,300 cu.yd. dry earth and 74,000 cu.yd. dry rock excav., 110 cu.yd. Class "A" concrete, for City. $165,000.

Ill., De Kalb—Bd. Comrs. De Kalb Co., bids about Mar. 1, constructing Kingston Genoa Drainage Dist., Kingston and Genoa Twps., incl. 3.87 mi. open ditch work, incl. 57,120 cu.yd. excav., 1,460 ft. tile ditches. W. M. Hay, De Kalb, engr.

Ia., Clarinda—Feb. 11, by Bd. Supervs. Page Co., at office K. Millen, co. aud., constructing County Drain 26, Sect. 1, clearing, grubbing 14 acres main channel, Sect. 2, clearing, grubbing 2 acres Lateral A, Sect. 3, excavating 25,994 cu.yd. main channel, Sect. 4, excavating 4,274 cu.yd. Lateral A, Sect. 5, 854 cu.yd. Lateral B, Sect. 6, 2,140 cu.yd. Lateral C.

Excavation, **Drainage**, Irrigation, Levees (Cont.)

Ia., Waterloo—Feb. 17, by J. E. Dempster, secy. River Front Development Comn., 622 Commercial St., furnishing materials, constructing river wall on east side Cedar River from Chicago Great Western R.R. Bridge to 11th Street Bridge, wood pile found., also river wall from present wall near Polk Ave. to Mullan Avenue Bridge. To exceed $25,000. Quantities of wood piling, concrete, reinforcing steel, sewer pipe, sheeting, other materials, also plans for bidding, obtainable from city engineer. N. B. Barba, City Hall, engr.

N. Y., Babylon — Feb. 16, by Long Island State Park Comn., Administration Headquarters, Belmont Lake State Park, 800,000 cu.yd. hydraulic excav. on part 3B, and 2,200,000 cu.yd. hydraulic fill on part 7 of Ocean Blvd. in Nassau and Suffolk Counties. A. E. Howland, ch. engr.

Tex., Corpus Christi—Feb. 29, by Nueces Co., Navigation Dist. 1, constructing 4 steel sheet pile cribs involving 350 tons piling, in channel entrance of Corpus Christi Harbor for protection of bascule bridge. R. J. Cummins, 727 Bankers Mortgage Bldg., Houston, consult. engr.

CONTRACTS AWARDED

Ill., East St. Louis—Bd. Trustees East Side Levee & Sanitary Dist., 213 Metropolitan Bldg., Highway Bridge 2 over Construction Project 8, incl. 130 ft. riveted through truss central span and two 65 ft. riveted pony truss approach spans with 22 ft. rein.-con. roadway, on rein.-con. piers and abutments, rein.-con. culvert for Auxiliary 1 of Constr. Project 8 on State Aid Route 39, incl. double 10 x 5.5 ft. rein.-con. culvert 90 ft. long with wing walls, furnishing, placing revetment on levee of Constr. Project 7, incl. 25,000 sq.yd. revetment in place, 2,000 cu.yd. excav. for footings and grading of levee, to Leslie Taylor, Jefferson City, Mo., $44,500. Noted Dec. 10.

Ind., La Porte — J. R. Demmary, constr. comr., constructing Louis D. Richman Ditch, incl. 81,883 cu.yd. excav., to Burke Bros., Lafayette.

Neb., Scottsbluff—Scotts Bluffs D.D. 2, D. J. Roach, secy., drainage canal, structures, to Reel Constr. Co., Sidney, $13,783. Est. $19,324. Noted Jan. 7.

Bond Elections

Coming Bond Elections

Waterworks—Ft. Collins, Colo., Campion Water Dist., Feb. 16, $14,000.
Water System — Montpelier, Idaho, Mar. 1, $80,000.
Waterworks and Distribution System — Deepwater, Mo., Spring, $39,000.
Sewers and Disposal Plant—Deepwater, Mo., $13,500.
Water System — Kittitas, Wash., Feb. 15, $30,000.
Sanitary Sewers and Disposal Plant—Spring, Washington, Mo., $30,000.
Roads—Longview, Tex., March, $1,000,000.
Power Plant and Lighting System — Murray, Utah, Feb. 20, $35,000.
Jail — San Jose, Calif., Santa Clara County, H. Pfister Co., clk. $150,000.
Schools—Atlanta, Ga., Mar. 9, $600,000.

Bonds Voted

Water and Sewerage System—Roanoke Rapids, N. C., $365,000.
Water Supply—Jacksonville, Ore., $10,000.
Harbor and Waterfront Impvts. and Street Lighting System—Lake Geneva, Wis., $100,000.
Electric Light and Power Plant—Coeur D'Alene, Ida., $60,000.

Bonds Defeated

Sewers—Wyandotte, Mich., $248,000.

FEDERAL GOVERNMENT

PROPOSED WORK

Ark., Benton—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., sketches rein.-con. brick, stone U. S. Post Office. $100,000. Appropriation bill in Congress.

Ark., Fayetteville — HOSPITAL — Vet. Bu., Arlington Bldg., Wash., D. C., sketches 2 and 3 story, rein.-con., brick, stone U. S. Veterans' Hospital. $1,500,000-$2,000,000. **Maturity indefinite.**

Ark., Lonoke—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., sketches rein.-con., brick U. S. Post Office. $100,000.

Ark., Texarkana—AIRWAY BEACON—Dpt. Commerce, Wash., D. C., sketches airway radio beacon station, incl. necessary building, towers, poles, wiring, at Texarkana Municipal Airport. $25,000.

Calif., San Diego—JETTY—U. S. Eng., Los Angeles, repairing jetty east side of entrance to San Diego Harbor, requiring 98,000 to 115,400 tons stone.

Calif., Ventura—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by H. D. Burket, 455 East Main St., U. S. Post Office. Noted Jan. 28.

D. C., Wash.—APEX BUILDING—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by Bennett, Parsons & Frost, engrs. and archts., 225 North Michigan Ave., Chicago, Ill., apex building to house various governmental bodies, Pennsylvania Ave., and is part Triangle Development. $3,000,000. Noted Jan. 28.

D. C., Wash. — DUST ENCLOSURE — Spec. 6754—Yards & Docks, Navy Dpt., sheet steel dust enclosure for coal bunkers at Navy Yard.

Illinois—DREDGING, etc.—U. S. Eng., Chicago, dredging 400,000 cu.yd. earth and removing 275,00 cu.yd. rock from Dresden Island Pool, Illinois Waterway.

Illinois—EXCAVATING, etc.—U. S. Eng., Chicago, excavating, dredging Marseilles Pool, Illinois Waterway, and on Dresden Pool, near Marseilles, $1,000,000 or more; electrical control apparatus in Brandon Road Lock and Dresden Island Lock on Illinois River, near Marseilles, $400,000; constructing gates, retaining walls and embankments on Illinois River, near Marseilles, .00,000-$1,000,000.

La., Monroe—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., soon takes bids 3 story, basement, 77 x 147 ft., rein.-con., brick, steel, Indiana limestone post office and court house, Jackson and Grammont Sts. $390,000. J. W. Smith & Associates, Ouachita Natl. Bank Bldg., archts. Noted Nov. 26.

Me., Houlton—STATION—Treas. Dpt. at office Sup. Archt., Wash., D. C., 1 story border station. $65,000.

Me., Limestone—STATION—Treas. Dpt. at office Sup. Archt., Wash., D. C., border inspection station. $31,500.

Md., Annapolis—TERRACES—Spec. 6778—Yards & Docks, Navy Dpt., Wash., D. C., improving terraces, incl. copper drain boxes, downspouts, interior and underground drains, at Bancroft Hall, Naval Academy.

Mass., Cambridge — POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., sketches U. S. Post Office, Massachusetts Ave. and Pleasant St. $755,000. Site selected. Noted July 30.

Mass., Camp Devens—THEATER—Con. Q.M. plans made theater.

Tenn., Cleveland—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., rein.-con., brick, stone, U. S. Post Office, $90,000. Site selected.

Mass., Groton—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., 1 story U. S. Post Office, Main St. $75,000.

Mo., Jefferson Barracks—HOSPITAL—Vet. Bu., Arlington Bldg., Wash., D. C., sketches 300-bed addition to U. S. Veterans' Hospital. $1,200,000.

N. J., Union City—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., sketches by J. G. Helmers, 147 Summit Ave., Union City, and Mahneken & Schultz, assoc. archts., 26 Journal Sq., Jersey City, 2 story, basement, brick, steel, 32nd St. and Palisade Ave. $375,000. Noted Jan. 7.

N. Y., Albany—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids latter part March on excavation and construction, etc., U. S. Post Office. Total est. $1,850,000. Gander, Gander & Gander, 17 Steuben St., archts. E. D. Litchfield, 578 Madison Ave., New York, assoc. archt. Noted Nov. 5.

N. Y., Lockport—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $80,000. Site selected.

N. Y., Mooers—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Site selected. $60,000.

N. Y., Norwich—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $130,000. Site selected.

N. Y., Nyack—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $150,000. Site selected.

N. Y., Patchogue — POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., sketches U. S. Post Office. $200,000. Site selected.

N. Y., St. George—BUOYS—Superintendent Lighthouses bids this month nine 4 bell buoys, 3 tail riveted nuns, 8 small riveted buoys, 210 c.i. sinkers and balls, total weight 280 tons.

Pa., Grove City—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., sketches by W. H. Crosby & Co., Beers Bldg., Oil City, 1 story, basement, 76 x 106 ft., brick, hollow tile limestone, steel, East Pine St. $120,000. Noted Sept. 10.

Tenn., Memphis — BOOMS — U. S. Eng., 2 aluminum alloy and steel dragline booms.

Tenn., Memphis — DRYDOCK — U. S. Eng., one 160 ft. floating drydock.

R. I., Wakefield—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $115,000.

Tex., San Angelo — POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., soon completes plans 3 story, 100 x 190 ft., rein.-con., brick, stone, South Oakes and East Concho Sts. $200,000. J. A. Wetmore, Wash., D. C., acting superv. archt. Noted June 4.

Va., Norfolk — AIR COMPRESSOR — Spec. 6769—Yards & Docks, Navy Dpt., Wash., D. C., cross-compound, steam-driven, air compressor, capable of compressing 5,000 cu.ft. free air per min. to a gage pressure 100 lb. per sq.in. installed on foundations provided by government.

Va., Quantico—COAL BUNKER—Spec. 6744—Yards & Docks, Navy Dpt., Wash., D. C., coal bunker in power house at Maine Barracks.

Vt., Vanaah—STATION—Treas. Dpt. at office Sup. Archt., Wash., D. C., inspection station. $56,000.

BIDS ASKED

Arkansas and Tennessee—WALL—See "Contracts Awarded."

Calif., San Francisco—PUMP—Feb. 18, by Treas. Dpt. at office Sup. Archt., Wash., D. C., new brine pump at U. S. Marine Hospital.

Conn. New London—QUARTERS—Feb. 11, by Treas. Dpt. at office Sup. Archt., Wash., D. C., officers' quarters at Coast Guard Academy. Noted Jan. 28.

D. C., Wash.—AIR CORPS BARRACKS—Feb. 9 (extended date), by Con. Q. M., Bolling Field, 1 air corps barracks. Noted Jan. 14.

D. C., Wash.—FIRE PROTECTION—Feb. 25, at office Architect of Capitol, furnishing, installing equipment for fire protection in U. S. Capitol Buliding and Senate Office Building.

Fla., Key West—IRON TOWER—Mar. 7, by Superintendent lighthouses, furnishing, delivering metal work for 1 iron tower, f.o.b. shipping point; adv. E.N.-R. Feb. 4.

Ga., Macon—ELEVATOR PLANT—Feb. 16, by Treas. Dpt. at office Sup. Archt., elevator plant in U. S. Post Office.

Illinois—EARTHWORK—Feb. 17, by U. S. Eng. Office, 428 Customhouse, St. Louis, Mo., 1,428,000 cu.yd. earthwork for rebuilding, enlarging levee of Hartwell Drainage and Levee Dist., Greene Co.; adv. E. N.-R. Feb. 4. Noted Jan. 7.

Ill., Chicago—HOSPITAL—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about Feb. 15, general contract 5 story, basement, brick, steel addition to U. S. Marine Hospital, Clarendon Ave. $500,000. Thielbar & Fugard, 520 North Michigan Ave., archts.

Ill., Harvey — POST OFFICE — Feb. 24, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office; adv. E. N.-R. Feb. 4.

Ind., Terre Haute—POST OFFICE, etc.—Feb. 29, by Treas. Dpt. at office Sup. Archt., Wash., D. C.; U. S. Post Office and court house (except elevator). $600,000. Noted Jan. 28.

Ia., Davenport—POST OFFICE—Feb. 26, by Treas. Dpt., at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted Dec. 17.

Me., Westminster—POST OFFICE—Feb. 25, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office; adv. E. N.-R. Feb. 4.

Mich., Ann Arbor—POST OFFICE—Feb. 29, by Treas. Dpt. at office Sup. Archt., Wash., D. C., extending, remodeling U. S. Post Office; adv. E. N.-R. Feb. 4.

Mich., Detroit — ELEVATOR — Feb. 15, by Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator plant in U. S. Court House.

Mich., Ludington—POST OFFICE—Feb. 26, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office; adv. E. N.-R. Feb. 4.

Minn., Minneapolis—STORAGE, etc.—Mar. 1, by Vet. Bu., Arlington Bldg., Wash., D. C., 1 storage building No. 18, at U. S. Veterans' Hospital.

Minn., Warroad—DREDGING SLEEVES, etc.—Feb. 8, by U. S. Eng., Canal Park, Duluth, six 12 x 32 in. rubber dredging sleeves, and one 12 in. x 11 ft. rubber suction hose, f.o.b. railroad station, for Dredge Traverse.

Miss., Vicksburg—MOTORS—Feb. 12, by U. S. Eng., Box 667, seven 220 volt, A.C. 3-wire, 3-phase, 60 cycle, electric motors, for U. S. Engineer Shops, f.o.b. Vicksburg.

N. Y., Brooklyn—CABLE, etc.—Feb. 19, by Signal Supply Officer, Army Base, 58th St. and 1st Ave., 15,000 ft. cable; 1,150 coils and 256 capacitors.

N. Y., Fort Jay—APARTMENT—Feb. 16 (extended date), by Con. Q. M., 39 Whitehall St., officers' apartment building. Noted Jan. 14.

N. C., Wilmington—WAREHOUSE—Feb. 8, by U. S. Eng., concrete found. walls and concrete floor for 60 x 100 ft. warehouse at Engineer Yard, Eagle Island, across River from Castle St.

Pa., Aspinwall—HOSPITAL—Mar. 1, by Vet. Bu., Arlington Bldg., Wash., D. C., 2 story, brick, hollow tile infirmary building addition and new quarters, Freeport Rd. $580,000. Private plans. Noted Apr. 16.

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Federal Government (Continued)

Pa., Pittsburgh—BUILDINGS—Feb. 24, at office U. S. Eng., Pittsburgh, 3 buildings at New Lock 4, Monongahela River; adv. E.N.-R. Feb. 4.

Pa, Sharpsburg—HOSPITAL—Mar. 1, by Vet. Bu., Arlington Bldg., Wash., D. C., infirmary addition building and new quarters, at Veterans Administration hospital, Aspinwall; adv. E. N.-R. Feb. 4.

Tex., Galveston—PIPE LINE—Feb. 25, by U. S. Eng., Galveston, constructing, delivering afloat 1 pipe line dredge hull; adv. E. N.-R. Feb. 4.

Tex., Port O'Connor—DWELLING—Feb. 18, by U. S. Coast Guard Headquarters, Wash., D. C., 1 story, attic, 44 x 92 ft. frame dwelling, wooden pile subfoundation, concrete column and slab found., etc., at U. S. Saluria Coast Guard Station, Matagorda Island, near here.

Va., Norfolk—DREDGING—Feb. 10, by U. S. Eng. Office, 962,662 cu.yd. place measurement, in 40 ft. channel, Norfolk Harbor; adv. E.N.-R. Feb. 4.

Va., Yorktown—MAGAZINE—Spec. 6548—Feb. 24, by Yards & Docks, Navy Dpt., Wash., D. C., concrete magazine, other buildings and structures, conveyor housings, conveyors, piping and equipment, at Naval Mine Depot.

W. Va., Huntington—AIR COMPRESSOR, etc. —Feb. 9, by U. S. Eng., steam driven air compressor and air receivers for Lock 22, Ohio River.

Wyo., Sheridan—ELEVATOR—Feb. 23, by Vet. Bu., Arlington Bldg., Wash., D. C., new electric elevator in U. S. Veterans' Hospital.

Canal Zone—DAM—Mar. 21, by A. L. Flint, genl. purch. officer Panama Canal, emergency butterfly valves, sluice gates, conduit linings, and trash rack metal work for Madden Dam.

CONTRACTS AWARDED

Arkansas and Tennessee—WALL—U. S. Eng., 1006 McCall Bldg., Memphis, Tenn., 1,800 ft. rein.-con wall on sheet steel piling, across entire river front of supply depot, $90,000; levee on north and west sides depot to height of 50 ft. on river gage at Memphis, Tenn., incl. 200,000 cu.yd. earthwork, $35,692; retaining wall and flood gate at railroad opening at Bridge Junction, Ark., $4,000, by day labor. Noted Dec. 10.

Calif., Long Beach—ELEVATOR PLANT—Treas. Dpt. at office Sup. Archt., Wash., D. C., complete elevator plant in U. S. Post Office, to Otis Elevator Co., 810 18th St., Wash., D. C., $18,737.

Calif., Oakland—ELEVATOR PLANT—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator plant in U. S. Post Office, to Otis Elevator Co., 810 18th St., Wash., D. C., $5,410. Noted Dec. 31.

Calif., San Diego — AIR COMPRESSORS — Spec. 6650—Yards & Docks, Navy Dpt., Wash., D. C., 3 air compressors, to Chicago Pneumatic Tool Co., 6 East 44th St., New York, $17,445.

Colo., Denver — PUMPING UNITS — Bureau Reclamation; 2 motor driven screw pumping units, 25 sec.ft. capacity each, for No. 5 Tule Lake Div. Klamath Project in Oregon, to Worthington Pump Co., Holyoke, Mass., $3,500.

D. C., Wash.—BRIDGE—At office Pub. Buildings & Parks, steel bridge carrying Rock Creek and Potomac Parkway over Rock Creek at L St. N. W., to W. C. Briddle, Drovers and Mechanics Natl. Bank Bldg., Baltimore, Md., $41,290. Noted Dec. 17.

D. C., Wash.—FOUNDATIONS—Treas. Dpt. at office Sup. Archt., Wash., D. C., founds. for new archives building, to F. L. Cranford, Inc., 149 Remsen St., Brooklyn, N. Y., $342,594. Noted Jan. 7.

Ga., Americus—ELEVATOR—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator in U. S. Post Office, to Amer. Elevator Co., 500 East Main St., Louisville, Ky., $5,643. Noted Dec. 31.

Ga., Atlanta—ELEVATOR PLANT—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator in U. S. Post Office, to Otis Elevator Co., 810 18th St. N. W., Wash., D. C., $65,000. Noted Jan. 7.

Ill., Rockford—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., clearing site for new U. S. Post Office to D. Golman, Rockford (60 days). Noted Jan. 4 Daily.

Kan., Leavenworth—ELEVATORS—Vet. Bu., Arlington Bldg., Wash., D. C., elevators, to Kimball Bros. Co., Council Bluffs, Ia., $44,298. Noted Nov. 5.

Mass., Bedford — ELEVATORS — Vet. Bu., Arlington Bldg., Wash., D. C., electric elevators in infirmary, etc., at U. S. Veterans' Hospital, to Otis Elevator Co., 810 18th St., Wash., D. C., $4,454. Noted Jan. 21.

N. Y., Wellsville—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to E. E. Garber, Bethlehem, Pa., $878,200. Noted Nov. 12.

Pa., Pittsburgh — DAM — U. S. Eng., Pittsburgh, constructing Dam 4, brick, steel, at South Donora, near Bamfort Sta., to Dravo Contg. Co., Neville Island, $235,581. Est. $323,405. Noted Nov. 26.

R. I., Bristol—WHARF—Superintendent lighthouses, Staten Island, wharf at Lighthouse Depot, to Polleys Equipment Co., Box 42, East Providence, $33,750. Noted Dec. 16 Daily.

T. H., Fort Shafter—SHOP, etc.—Con. Q. M. Div., 1 Q. M. utility shop, shop and garage, fire station, guard house, parachute building, paint and oil dope house, dispensary, and radio building, Wheeler Field, to H. Freitas, Honolulu, $145,600. Noted Jan. 14.

RAILWAYS

PROPOSED WORK

Oklahoma—Missouri-Kansas-Texas R.R. Co., St. Louis, Mo., F. Ringer, ch. engr., M. H. Cahill, chn. of Bd., plans expending $300,000, laying new 90-lb. rail on various sections main line between Springtown and McAlester. Owner ordered 2,800 tons rail in equal quantities, from the Bethlehem Steel Co., Widener Bldg., Phila., Pa., and Tennessee Coal, Iron & Railroad Co., Brown-Marx Bldg., Birmingham, Ala.

SUBWAYS AND TUNNELS

PROPOSED WORK

Mass., Boston—City, Hospital Dpt., sketches by J. H. Ritchie & Associates, 250 Stuart St., 2 tunnels under Albany St., connecting with main building of City Hospital. To exceed $25,000.

GRADE CROSSINGS

PROPOSED WORK

Me., Kennebunk—State. Public Utilities Comn., State House, Augusta, reconstructing bridge over Boston & Maine R.R. $25,000 or more.

N. Y., Aqueduct—Long Island R.R. Co., A. C. Watson, ch. engr., Pennsylvania Sta., New York, eliminating grade crossing on North Conduit Blvd., Church St. and Centerville Ave. $1,500,000. Transit Comn. ordered work.

N. Y., Glendale — Long Island R.R. Co., Montauk Div., Pennsylvania Sta., New York, submitted general plans to P. Serv. Comn. for eliminating grade crossings by depressing Cooper Ave. under tracks and carrying Dry Harbor Rd. (Weisse Ave.) over tracks. $850,000.

N. Y., Potsdam—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, eliminating Sissons Crossing. To exceed $25,000. Pub. Serv. Comn. denied reconstruction of this elimination project. Project will proceed in due course.

N. Y., Tioga—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., and Lehigh Valley R.R. Co., G. T. Hand, ch. engr., 143 Liberty St., New York, revised general and detail plan for eliminating 2 grade crossings on Waverly-Owego State Hy., Tioga Co. approved by State Dpt. Pub. Wks. $124,600. Erie R.R. was authorized to do certain work in connection with elimination of crossings by direct employment of labor and purchase of materials. Noted Feb. 6.

Okla., Oklahoma City—Chicago, Rock Island & Pacific R.R. Co., LaSalle St. Sta., Chicago, Ill. W. H. Peterson, ch. engr., preliminary plans 2 span, 88 ft. I-beam steel overpass at 2nd St. $25,000.

BIDS ASKED

Wisconsin—Feb. 9, by State Hy. and Unemployment Comns., State Capitol Annex, Madison, Kivlin Grade Separation (approaches only) State Aid Project 1419, County Trunk M, Dane Co.; Lover's Lane Grade Separation (approaches only), S.A.P. 2900, and Greenfield Subway (approaches), S.A.P. 2026, both State Trunk Hy. 100, Milwaukee Co.; Silvernale Grade Separation (approaches only), S.A.P. 2072, S.T. Hy. 30, Waukesha Co.; Roberts Overhead (approaches only), S.A.P. 6187, S.T. Hy. 65, St. Croix Co.; Eland Junction Overhead (approaches only), S.A.P. 3456, State Trunk Hy. 26, Shawano Co.; East Forest Junction Overhead (approaches only), S.A.P. 3404, S.T. Hy. 10, Calumet Co.; constructing Green Bridge, S.A.P. 1448, S.T. Hy. 140, Rock Co.

DAMS

BIDS ASKED

Calif., Pasadena—See "Waterworks."

PIERS AND WHARVES

PROPOSED WORK

Conn., Norwich — WHARF, etc. — Shetucket Coal & Lumber Co., 203 North Main St., 45 x 60 ft. pile, timber wharf, timber bulkhead, four 13 pile dolphins, Thames River. $25,000. Private plans.

Tex., Aransas Pass—PIER—Harbor Ferry Co., pier out from Mustang Island, extending 400 ft. seaward, and ending in tee-head about 100 ft. long and 24 ft. wide, south of present jetty. Private plans.

CONTRACTS AWARDED

Wis., Green Bay—DOCK—Hoberg Power & Fibre Co., 800 Elm St., 450 ft. timber dock with loading devices, to Waterways Eng. Co., McDonald St. Est. $50,000. Noted Jan. 7.

POWER AND LIGHTING

PROPOSED WORK

N. Y., Bath — Donovan Constr. Co., 800 Franklin St., Watertown, petition before Pub. Serv. Comn. for permission to construct electric distribution line.

N. Y., Elen—Iroquois Gas Co., 45 Church St., Buffalo, applied to Pub. Serv. Comn. for permission to construct distribution system.

N. Y., Lentz—Empire Gas & Electric Corp., Geneva, requested Public Service Comn. for permission to construct electric distribution line in Cayuga Co.

N. Y., LeRoy—Tri-County Natural Gas Co., c/o New York State Electric & Gas Corp., 22 Central Ave., Ithaca, petition before Pub. Serv. Comn. for permission to construct electric distribution system in Genesee Co.

N. Y., New York—Interborough Rapid Transit Co., 165 Bway., automatic signal and train tripping devices for West Farms Connection. To exceed $50,000. Project will not proceed until more urgent signal work has been completed.

N. Y. New York—Interborough Rapid Transit Co., 165 Bway., equipping local tracks with automatic signal and train tripping devices on Sixth Avenue Elevated from Rector St. to 53rd St. and 9th Ave. To exceed $150,000. Project will be undertaken latter part of year.

N. Y., New York—Interborough Rapid Transit Co., 165 Bway., installing automatic signal and train tripping equipment on 3rd Ave. Elevated-South Ferry and City Hall to Bronx Park. To exceed $1,000,000. Transit Comn. ordered work. Project will not be undertaken until other signal work has been completed.

N. Y., Throupsbury—New York Central Electric Corp., 80 East St., Rochester, electric distribution system, Steuben Co. Pub. Serv. Comn. granted permit.

BIDS ASKED

Calif., Los Angeles—See "Streets and Roads."

Mo., Neongwah—L. C. Scott taking bids wire, poles, transformers for 4 mi. 6,600 volt electrical transmission line.

New York—Feb. 16, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, furnishing, installing station and tunnel lighting equipment, incl. electric heating and ventilation for part Independent System City-owned Rapid Transit Railroads from 36th St. to Roosevelt Ave. Stations (inclusive), Queens Boro.

CONTRACTS AWARDED

N. Y., Dongan Hills—J. G. W. Greeff, comr. Hospitals, Municipal Bldg., New York, fire alarm system in buildings Sea View Hospital, Brielle Ave., to Erickson Equipment Co., Grand Central Terminal, New York, $24,840. Noted Dec. 10.

PARKS AND SPORTS

PROPOSED WORK

Ia., Muscatine—City sketches by F. O. DeMoney, 30 North La Salle St., Chicago, Ill., 1 story, irregular sized, concrete, rein.-con., brick pavilion, plain found. $40,000.

Ia., Sioux City—Sioux City Country Club, W. Melody, pres., bids in spring 40 x 100 ft. rein.-con. swimming pool, 3 to 10 ft. deep, mosaic tile walls, surface lighting and submerged lights. W. E. Buell & Co., 501 Insurance Bldg., engrs. Noted Dec. 17.

La., New Orleans—Bd. City Park Comrs., large electrically operated fountain in center of lakes in park, also constructing 4,000 seating capacity amphitheatre. $50,000.

Mass., Boston—City, Park Dpt., 33 Beacon St., sketches by J. C. McGann, 129 Newbury St., 1 story antelope house addition, Franklin Park, Dorchester. $50,000. Noted Jan. 1.

Mass., Boston—City, Park Dpt., 33 Beacon St., improvements at Mission Hill Playground, Roxbury, $30,000; constructing playground near Germantown School, West Roxbury, $25,000.

Mass., Fall River—M. Dubois, Sandy Beach, public bath house, at Sandy Beach. $30,000. Engineer not appointed.

Mass., Gardner—Town, F. Reynolds, supt. schools, girls hockey field, Elm St., and auditorium addition to school, Coleman St. To exceed $25,000. Engineer not appointed.

Parks and Sports (Continued)

Mass., Oxford—Town, J. A. Pearce, chn. Com., brick municipal gymnasium. $50,000 or more. Engineer not appointed.

Mass., Salisbury—Commonwealth of Massachusetts, Dpt. Conservation, Park Div., 1 story, brick bath house, comfort station. To exceed $25,000.

Mass., Wakefield—Commonwealth of Massachusetts, Metropolitan District Comn., 1 story, concrete bath house, north shore of Lake Quannapowett. $25,000.

Mo., University City—Washington University, G. R. Throop, chancellor, Wydown and Skinker Blvds., St. Louis, preliminary plans rein.-con. stadium, 30,000 seating capacity, on 6.75 acre tract, Pennsylvania Ave.

N. Y., Brooklyn—Dpt. Parks, .W R. Herrick, pres. Park Dpt., Arsenal Bldg., Central Park, New York, park development, Atlantic and Utica Aves. $100,000. Site to be acquired but held up pending improvement in city finances.

N. Y., New York—Dpt. Parks, Arsenal Bldg., Central Park, new park, Woodycrest Ave. and 166th St. To exceed $65,000. Approved by Bd. Estimate and recommended by comptroller but temporarily held up because of city's financial crisis.

N. Y., New York—Park Bd., W. R. Herrick, pres. Park Dpt., Arsenal Bldg., Central Park, landscaping park and playground site at Broome, Sheriff and Delancey Sts. $260,000.

N. Y., New York—Park Bd., W. R. Herrick, pres. Park Dpt., Arsenal Bldg., Central Park, playground equipment, Macombs Dam Park. Action by Bd. Estimate pending to authorize purchases. $20,000.

R. I., Cranston (mail Providence) — State, Metropolitan Park Comn., bath house, parking area and driveway, Edgewood Beach. To exceed $25,000.

Vt., Northfield—Norwich University, C. A. Plumley, pres., plans by H. A. Goodspeed, 148 State St. Boston, Mass., concrete bleachers, gateway, University Grounds. $25,000 or more.

Washington—Olympic Chalet Co., A. Zahn, representative, tentative plans American-Bleichert-Zuegg passenger tramway, single reversible type, with traveling speed of 1,000 ft. per min., 10 passenger capacity, in Grays Harbor Co., probably Mount Baldy. L. T. Hays, c/o Columbia Steel Co., 777 Nicholai St., Portland, Ore., made surveys.

BIDS ASKED

Conn., New London—Alfred Mitchel Woods Assoc., Inc., c/o Payne & Keefe, archts., 231 State St., taking bids 2 story, 35 x 90 ft., field stone field house, incl. 22 x 25 ft. garage, flagstone porch work shop and boiler room, in Mitchel woods, Montauk Ave. $25,000. Noted Jan. 28.

Ia., Waterloo—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Kan., Hutchinson—See "Contracts Awarded."

Mass., Quincy — Mar. 1, by M. Pearl, c/o Hendrick & Haywood, archts., 192 Boylston St., Boston, 135 x 145 ft., timber, brick, concrete open air pavilion, concrete found., Southern Artery and Canal St. $25,000 or more. Former contract rescinded. Noted Dec. 3, under "Contracts Awarded."

CONTRACTS AWARDED

Conn., Windsor—See "Schools."

Kan., Hutchinson—City, H. R. Obee, clk., municipal park improvement, incl. 9-hole golf course, day labor. $30,000 voted.

La., New Orleans—See "Clubs."

Mass., Boston—City, Park Dpt., 33 Beacon St., concrete bleachers, walks and grading, Fallon Field South Roberts and South Waters Sts., Roslindale, to C. M. Callahan, Inc., 33 Stratford St., West Roxbury, est. $25,000; grading, etc., McConnell Park, Springdale and Denny Sts. Dorchester, to A. G. Tomassello & Sons, Inc., 250 Stuart St., est. $30,000. Noted Dec. 17.

Mass., Boston—City, Park Dpt., field house, Dubar Ave. Playground, Dorchester, to A. Conti, 1433 Centre St., Roslindale, $19,045. Est. $25,000. Noted Jan. 21.

Mass., Boston — Park Dpt., 33 Beacon St., glass sun house at L St., bathhouse, South Boston, to R. J. Connolly, 1146 Dorchester Ave., Dorchester. Est. $25,000. Noted Jan. 7.

Okla., Bartlesville—H. V. Foster, 30 x 60 ft., rein.-con., terra cotta swimming pool, tile walks, ornamental railing, to Long Constr. Co., Philtower Bldg., Tulsa. Est. $35,000.

Tenn., Nashville—City Bd. Park Comrs., C. M. McCabe, War Memorial Bldg., 1 story, 75 x 120 ft., concrete, brick, stucco enclosed swimming pool, to Foster & Creighton Co., Amer. Natl. Bank Bldg.

Man., Winnipeg — City, repairing and constructing addition to Sargent Park open air swimming pool, to Malcolm Constr. Co., 445 River Ave., $22,300; plumbing, to Cotter Bros., 235 Garry St., $5,169; 400 metal lockers, to Western Steel Products, St. Boniface, $2,696; two 150 kw. electric water heaters, to Schumacher-McKenzie Ltd., 334 Main St., $1,825. Grand total $31,990.

HEATING AND VENTILATING

CONTRACTS AWARDED

Mass., Cambridge—Radcliffe College, A. L. Comstock and Coolidge & Carlson, archts., 89 State St., Boston, heating and ventilating in laboratory, near College Grounds, to J. S. Cassedy, 123 Austin St., est. $25,000 or more; plumbing, to C. H. Cronin, Inc., 14 Byron St., and electrical work, to Hixon Electric Co., 22 Elkins St., South Boston, est. $25,000 or more. Noted Jan. 7.

Mass., Somerville—First National Stores, Inc., Mystic Ave., heating in produce warehouse, Mystic Ave., to J. J. Hurley & Co., 104 Bway., Boston; plumbing, to J. B. Farnsworth, 153 Tyler St., Boston; electrical work, to J. Livingston & Co., Inc., 18 Oliver St., Boston. Est. $25,000. Noted Jan. 28 under "Warehouses."

UNCLASSIFIED

PROPOSED WORK

Calif., Long Beach—TRANSIT SHED—City part 1 and 2 story, 82 x 470 ft. transit shed at Berth 48, Inner Harbor. $70,000. R. G. McGone, City Hall, engr.

Ia., Grinnell — RADIO STATION — General Broadcasting Co., Station WHO, Liberty Bldg., Des Moines, sketches by P. A. Loyet, c/o owner, brick, concrete, incl. equipment, tower. $250,000.

Mass., Boston—MOTHER'S REST — City, Park Dpt., mother's rest at Wellington Hill Park. $50,000.

Mass., Boston—TRAFFIC CONTROL SYSTEM—City, Traffic Comn. traffic control system, South St. and Arborway, Jamaica Plain. $25,000.

Mass., Boston—TRAFFIC SIGNAL SYSTEM—City, Traffic Comn., traffic signal system on Centre St. from Manthorne Rd. to La Grange St., West Roxbury. $25,000 or more.

Mass., Everett—STATION—Boston Elevated Ry. Co., Park Sq. Bldg., station at or near present terminal. $50,000. Private plans.

N. Y., Woodhaven—COMFORT STATION—G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., Long Island City, comfort station Woodhaven and Rockaway Blvds. $40,000.

N. Y., New York—MORTUARY, etc.—Dpt. Hospitals, Municipal Bldg., bids late in March, general contract 3 story, 35 x 80 ft. mortuary and laboratory, Welfare Island opposite East 53rd St. M. Bernstein, 2 Columbus Circle, archt.

Okla., Oklahoma City—OIL PIPE LINE—Anderson Pritchard Oil Corp., Colcord Bldg., 20,000 mi. 4 and 6 in. oil pipe line in Oklahoma City Oil Field. $40,000. Private plans.

Pa., Phila.—BROADCASTING STATION—See "Offices."

Tenn., Nashville — RADIO BROADCASTING STATION—National Life & Accident Insurance Co., 7th and Union Sts., preliminary plans 50,000 watt radio broadcast station, incl. towers, broadcast equipment, about 12 or 15 mi. from city. Private plans.

Texas—OIL PIPE LINE—J. W. Frazier, McAllen, et al., preliminary surveys 8- to 10-in. crude oil pipe line from point near Rio Grande City to point on lower coast. Private plans. Owners are starting on 100-well drilling campaign.

BIDS ASKED

N. Y., New York—TREATED TIES—Feb. 9, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., supply of treated ties (Order 17) for use in Rapid Transit Railroads.

O., East Cleveland (br. Cleveland)—CULVERT—City taking bids 450 ft. 10 x 10 ft. concrete culvert, Dugway Brook. $50,000. M. Garnett, City Hall, engr.

CONTRACTS AWARDED

N. Y., Geneva—GREEN HOUSES—Commissioner Educ., Education Bldg., Albany, green houses at New York State Agricultural Station, to Lord & Burnham, Irvington, $51,947; heating and sanitary work, to Barr & Creelman Co., 74 Exchange Pl., Rochester, $13,632 and $3,327 respectively; electrical work, to Vanderlinde Electric Corp., 52 Charlotte St., Rochester, $1,269. Grand total $70,175. Noted Dec. 17.

N. Y., Syracuse—LABORATORY—Commissioner Dpt. Education, Education Bldg., Albany, general contract laboratory building at College of Forestry, to W. J. Murray, 41 South Pearl St., Albany, $36,990; heating and sanitary work, to Haneline Co., Utica, $3,060 and $1,530 respectively; electrical work, to W. Kallack, 936 Bway. St., Rochester, $847. Grand total $42,427. Noted Dec. 31 under "School."

MATERIALS

BIDS ASKED

PILING, LUMBER, etc.—**Grundy Center, Ia.**—Feb. 15, at office Auditor Grundy Co., 1,924 lin.ft. creosoted yellow pine piling, 22,500 bd.ft. creosoted and 53,800 bd.ft. untreated lumber.

GASOLINE, etc.—**Nevada, Ia.**—Feb. 17, at office Auditor Story Co., 1932 requirements of gasoline, lubricating oil, grease and culvert pipe.

PORTLAND CEMENT—**Boston, Mass.**—Feb. 11, by Supply Dpt., P. A. Chapman, supt., portland cement as specified. $5,000.

WATER PIPE—**Minneapolis, Minn.**—Feb. 15, F. S. Gram, city purch. agt., 20,000 lin.ft. 6 in., 4,000 lin.ft. 8 in., 4,000 lin.ft. 12 in. and 2,000 ft. 16 in. standard or centrifugal c.i. water pipe. N. W. Elsberg, city engr.

TAR—**Trenton, N. J.**—Feb. 9, by State Hy. Comn., 50,000 gal. tar for cold application Grade K, P or U. H. F. Harris, Trenton, state engr.

PIPE, FITTINGS, VALVES—**Corpus Christi, Tex.**—Feb. 18, at office T. Koester, city secy., furnishing, delivering 16,000 lin.ft. 4 in. and 2,000 lin.ft. 6 in. pipe together with fittings, valves, pipe to be steel wrought iron, or c.i. for natural gas distribution; adv. E. N.-R. Feb. 4.

PIPE, etc.—**Toronto, Ont.**—Feb. 10, by R. M. Smith, deputy minister of Hys., year's supply concrete and vitr. pipe, tar compounds and asphalt materials for road construction, calcium chloride.

CONTRACTS AWARDED

CAST IRON PIPE—**Alhambra, Calif.**—City Council, 7,000 ft. 6 in. and 300 ft. 8 in. cement lined c.i. pipe, to National Cast Iron Pipe Co. 710 4th Pl., Los Angeles, at $0.50 and $0.77 per ft. respectively.

PIPE—**Burbank, Calif.**—City Council, 2,080 ft. 18 in. Class 250 c.i. cement lined pipe in 16 ft. lengths and 2,872 ft. 18 in. in 18 ft. lengths, to Amer. Cast Iron Pipe Co., 412 West 6th St., Los Angeles, at $2.558 and $2.269 per ft. respectively.

STEEL BARS — **Los Angeles, Calif.** — Los Angeles Co., furnishing 178,000 lb. designated "A" and "D," 72,000 lb. "C" and "E" and 18,400 lb. "B" and "F" reinforcing steel bars for Pacoima Wash Levees for Flood Control Dist., 202 North Bway., to Soule Steel Co., 6200 Wilmington St., $8,990.

CAST IRON PIPE—**Sacramento, Calif**—City Council, 3,000 ft. 4 in. c.i. pipe, to Pacific States Cast Iron Pipe Co., 111 Sutter St., San Francisco, at $0.31 per ft., 1,500 ft. 6 in. c.i. pipe, to Amer. Cast Iron Pipe Co., Balboa Bldg., San Francisco, at $0.48 per ft.

CAST IRON PIPE—**Santa Ana, Calif.**—Bd. Supervs. Orange Co., Water Dist. 5, to Pacific States Cast Iron Pipe Co., 417 South Hill St., Los Angeles, 76 ft. 8 in. c.i. pipe $47.12, 2,987 ft. 6 in. $1,224.67, 14,281 ft. 4 in. $4,712.73. Noted Oct. 8, under "Waterworks."

CULVERT PIPE, etc. — **Leon, Ia.** — Bd. Supervs. Decatur Co., 2,050 ft. red cedar and 4,380 ft. creosoted yellow pine piling, also 48,000 ft. treated and 268,000 ft. untreated bridge lumber, to M. R. Field, Des Moines, $13,000 and $2,290 respectively; 4,760 ft. corrugated culvert pipe, to Wheeling Corrugating Co., 100 Southwest 2nd St., Des Moines, $4,215; miscellaneous hardware, to Carter Scott & Son, Davis City, $1,250. Grand total $20,755. Noted Dec. 24.

PORTLAND CEMENT—**Minneapolis, Minn.**—F. S. Gram, city purch. agt., 150,000 bbl. portland cement for Paving Dpt., to Landers-Morrison-Christensen Co., 800 Builders Exch. Bldg., at $1.50 per bbl. net cash f.o.b. cars. Noted Jan. 28.

LUMBER—**St. Louis, Mo.**—Bd. Pub. Serv., City Hall, 3,500,000 ft. bd.m. for use on railroad deck of municipal bridge across Mississippi River and approaches thereto, to Julius Seidel Lumber Co., 2200 South Kingshighway, $173,059. Noted Dec. 24.

PIPE—**Livingston, Mont.**—T. A. Ross, city clk., 1,475 lin.ft. 12 in. and 3,290 lin.ft. 10 in. c.i. water pipe, to Amer. Cast Iron Pipe Co., 712 Plymouth Bldg., Minneapolis, Minn.; one 24 in. Venturi meter, to Builders Fdry. Co., Livingston; gate valves, to Iowa Valve Co., 701 Hubbell Bldg., Des Moines, Ia. Total cost about $22,000.

WATER GATE VALVES, FLUSH HYDRANTS, etc.—**Provience, R. I.**—Bd. Contr. & Supply, furnishing water gate valves as specified, to Reading-Pratt & Cady Co. Inc., 69 A St., Boston, Mass., $8,466; flush hydrants, hydrant boxes and covers as specified, to Chapman Valve

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Materials (Continued)

Mfg. Co., 71 A St., Boston, Mass., $12,887; c.i. water pipe as specified, to R. D. Wood & Co., 400 Chestnut St., Phila., Pa., $27,772. Grand total $49,125. This corrects report in Jan. 21 issue.

EQUIPMENT

PROPOSED WORK

ENGINE—**Venezia, Ariz.**—See "Factories and Mills."

BIDS ASKED

GRADER BLADES—**Augusta, Me.**—Feb. 8, by State, State Hy. Comn., Augusta, 850 grader blades; 4,300 drag blades.

INSERT SLEEVES—**Minneapolis, Minn.**—Feb. 8, by F. S. Gram, city purch. agt., insert sleeves and gates for Water Dpt. $1,300. N. W. Elsberg, city engr.

GRADER BLADES—**St. Paul, Minn.**—Feb. 16, by State Hy. Dpt., grader blades required during current year.

TRUCK—**Thief River Falls, Minn.**—Feb. 9, by City, P. G. Pederson, clk., 1 to 1½ ton truck.

GENERATOR—**Schuyler, Neb.**—Feb. 9, by City, A. MacKenzie, clk., 750 kw. turbo-generator with condenser, 2 super heaters for 250 and 216 hp. boilers. $38,000. Nixon & Reynolds, 309 Omaha Grain Exch. Bldg., Omaha, engrs.

METAL WARNING SIGNS—**Mount Pleasant, N. Y.**—Feb. 10, at office J. Downer, engr. Westchester Co., Court House, White Plains, furnishing, delivering metal warning signs at County Road Maintenance Storehouse on Columbus Ave. at Clinton St., Valhalla; adv. E. N.-R. Feb. 4.

SHOVEL, BUCKET, etc.—**North Carolina**—State Hy. Comn., Raleigh, in market one boom 27 ft. 0 in. for clam shell, one ½ yd. clam shell bucket, cables and attachments for use of clam shell (for Hansen Clutch Gas Shovel) Model 22, f.o.b. Statesville.

FOREIGN

Chili, Santiago—Feb. 18, by Chilean State Railways, equipment for repair shops, incl. blacksmiths, and forge tools, machine tools, electric traveling crane, etc.

Hungary, Budapest—City Clerk taking bids erection and supply of complete benzol recovery plant at gas works, for municipality.

Mexico, Mexico City—Three-Minute Cereals Co., Cedar Rapids, Ia., plans plant for manufacturing breakfast cereals. To exceed $40,000.

Mexico, Monterrey — Impulsora Pope Chico, Monterrey, general contract 2 story, basement hotel and stores building, to Anahuac Constr. Co., Monterrey. Total est. $400,000.

Union Socialist Soviet Republics — Supreme Economic Council of Armenia, Div. Soviet Government, c/o Amtorg Trading Co., 261 5th Ave., New York, plans anthracite coal mining development to supply cement plant, now under construction in vicinity of Dzhormansk Region, Armenia.

U. S. S. R., Tashkent—United Constr. Equipment Industry Div. of Soviet Government, c/o Amtorg Trading Corp., 261 5th Ave., New York, irrigation equipment manufacturing plant, by day labor and technical contracts. To exceed $1,000,000.

South Africa, Capetown—June 15, by City Clerk, filtration plant, capable of dechlorinating, filtering and liming 300,000 gal. water per day.

Switzerland, Geneva — League of Nations, Geneva, plans Palace of League of Nations, incl. assembly, civic group, and $1,000,000 library which is a gift of John D. Rockefeller, Jr., 26 Bway., New York. Total est. $5,000,000.

Commercial Buildings

RESIDENTIAL

BIDS ASKED

N. J., East Orange—See "Contracts Awarded."

N. J., Spring Lake—Feb. 8, by P. V. Stout, archt., 420 Lexington Ave., New York, altering 4 story, basement hotel, Mercer Ave., for Warren Hotel, Mercer Ave. $150,000.

N. J., South Orange — See "Contracts Awarded."

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N. Y., Brooklyn—See "Contracts Awarded."

N. Y., East Williston — See "Contracts Awarded."

N. Y., Flushing—See "Contracts Awarded."

N. Y., Long Island City — See "Contracts Awarded."

CONTRACTS AWARDED

Ill., Peoria — Reinhard Iben, Peoria Life Building, awards separate contracts 3 story, basement, apartment and 32-car garage side addition, Moss Ave. $300,000. Private plans.

N. J., East Orange—D. J. Scrocco, archt., 60 Park Pl., Newark, 4 story, 85 x 135 ft., brick, steel, 4th and North Arlington Aves., separate contracts, for A. Simone, c/o architect. $150,000.

N. J., South Orange—Morris Mandelbaum Associates, 7 East 42nd St., New York, 2 and 3 story, basement, 50 x 250 ft. apartment and stores, Irvington Ave., Kilburn Pl. and Normandy Court, separate contracts. $300,000. **Maturity in summer or later.** Noted Sept. 24.

N. Y., Brooklyn — Cameo Constr. Co., 1482 East 46th St., apartment, 49th St. and Avenue J, separate contracts. $150,000. I. Kallich, 375 Fulton St., archt.

N. Y., East Williston—New England Development Corp., D. Goodman, pres., Williston Plaza, residential development, Williston Plaza, separate contracts. To exceed $300,000.

N. Y., Flushing — F. Droesch, 110 18th Jamaica Ave., Richmond Hill, residential development, garages, Kissena Park, day labor and separate contracts. $1,000,000.

N. Y., Long Island City—L. Kugler, 1830 Putnam Ave., 6 story, Cypress Ave. and 79th St., separate contracts. $150,000. A. B. Chester, c/o owner, archt.

CLUBS

PROPOSED WORK

N. J., Jersey City—Mens Club of Summit Ave Methodist Episcopal Church, J. Spiel, pres., Summit Ave. and Bower Sts., 2 story, basement, brick, steel, Summit Ave. $150,000. **Maturity soon.** Architect not appointed.

N. J., New Brunswick—B. P. O. E. 324, 40 Livingston Ave., sketches by A. Merchant, 1 Elm Row, 2 story, basement, brick, steel club addition, Livingston Ave. **$150,000.** Noted Dec. 17.

N. J., Orange—Women's Club, F. W. Tooker, ch. Building Comn., 556 William St., East Orange, bids in March or later, general contract 2 story, basement, 125 x 145 ft., brick, steel club house. $200,000. D. E. Ward, 1 Madison Ave., New York, archt. Noted Aug. 27.

N. J., Piscatawaytown — Raritan Township Exempt Firemen's Assn., Old Post Rd., 2 story, basement, brick, steel club house addition. $150,000. **Maturity indefinite.** Architect not appointed.

N. Y., Brooklyn—Y. M. C. A., Flatbush Branch 2022 Church Ave., revised plans by Voorhees, Gmelin & Walker, 101 Park Ave., New York, Y. M. C. A. building, Church and Kenmore Aves. $375,000. **Maturity about June.** Noted Feb. 12.

CONTRACTS AWARDED

La., New Orleans — G. R. Bartling, Inc., archts., 802 Paul Brown Bldg., St. Louis, Mo., general contract 3 and 8 story, basement, 40 x 150 x 160 ft., rein.-con., stone, terrazzo, tile club and hotel building, incl. 25 x 75 ft. swimming pool, 6 bowling alleys, 4 stores, roof garden, hand ball courts, 3 high speed elevators, steam heating, to John Keeley, Jr., 4114 State St., East St. Louis, Ill., for Knights of Columbus, 836 Carondelet St., c/o C. A. Ahern, Grand Knight. Est. $450,000. Bids soon on subcontracts. This corrects report in Jan. 21 issue.

HOSPITALS

PROPOSED WORK

Ill., East St. Louis—St. Clair Hospital Assn., 1509 Illinois Ave., plans by N. S. Spencer & Son, 180 North Michigan Ave., Chicago, and J. W. Kennedy, asso. archt., 1st Natl. Bank Bldg., takes bids about Feb. 15, 4 story, basement, concrete, rein.-con., brick, plain found., 29th and State Sts. $175,000.
Noted Nov. 12.

Ill., Jacksonville—Passavant Hospital, H. J. Rodgers, pres., sketches by Pond, Pond & Martin, 180 North Michigan Ave., Chicago, brick, stone addition and nurses' home. **$300,000.**

La., New Orleans — Bd. of Administrators Charity Hospital plans by Weiss, Dreyfous & Seiferth, Maison Blanche Bldg., convalescent home to be known as Lapeyre Miltenberger Home for Convalescents. Building to be erected and maintained under a $600,000 bequest of the late Mrs. Corinne Lapeyre Miltenberger.

Massachusetts — Commonwealth of Massachusetts, Dpt. Mental Diseases, Boston, sketches institution for Criminally Insane. To exceed $150,000. Site not selected, architect not appointed.

Mass., Boston—City, Hospital Dpt., plans by J. H. Ritchie & Associates, 250 Stuart St., Pathological building. $650,000.

Mass., Boston—City, Hospital Dpt., altering and constructing sanatorium addition, River St. $150,000. Architect not appointed.

Mass., Lowell—Lowell General Hospital, A. G. Pollard, pres. Bd. Trustees, for Frank Hanchett Memorial Unit, brick, stone, Vernum Ave. $250,000. Architect not appointed.

Mass., Worcester — Memorial Hospital, G. Stone, supt., administration building, Belmont St. $150,000 or more. Architect not appointed.

N. J., Jersey City—Bd. Freeholders Hudson Co., Court House, sketches by C. H. Ziegler, 26 Journal Sq., brick, steel nurses' home. $150,000. Noted Jan. 26.

N. J., Scotch Plains—Oakley & Sons, archts., 1259 Clinton Pl., Elizabeth, general contract bids in March on revised plans 2 story, basement, brick, steel sanitorium addition, Bonnie Burns Sanitorium. $150,000. Noted Jan. 28.

Wis., Wauwatosa—Milwaukee Co. rejected bids Dec. 14, 4 story, basement, 160 x 180 ft. nurses' home. $300,000. Noted Dec. 10.

Que., Montreal—Metropolitan Hospital plans hospital, St. Louis Sq. $400,000. Architect not appointed.

BIDS ASKED

Pa., Norristown—Feb. 10, by State Comrs., J. L. Hanna, secy., Harrisburg, 3½ story, basement, admission building, with two 34 x 60 ft. wings, brick, steel, plain found., at State Hospital. Ritter & Shea, Packard Bldg., Phila., archts. Noted Nov. 19.

Tex., San Antonio—San Antonio State Hospital, c/o S. Johnson, South Presa St., taking bids on competitive basis 2 story, part basement, brick, rein.-con. dormitory, incl. ward and patients' rooms, dining room, kitchen, etc., plain found. South Presa St. $100,000-$150,000. H. T. Phelps, Hicks Bldg., archt. Wilder & Smith, Hicks Bldg., assoc. archts. Lilly & Drought, Smith-Young Tower, engrs.

CONTRACTS AWARDED

Ill., Chicago—Provident Hospital & Training School, 16 West 36th St., general contract remodeling 6 story, basement main building and outpatient clinic, incl. elevators, refrigeration, steam heating, 51st and Vincennes Sts., to H. B. Barnard, 140 South Dearborn St. Est. $250,000.

N. Y., Central Islip—Dpt. Mental Hygiene, State Office Bldg., Albany, general contract assembly hall, Central Islip State Hospital, to Longacre Eng. Co., 345 Madison Ave., New York, $163,234; heating, to Andrew Muro, 218 East 81st St., New York, $19,258; sanitary work, to E. V. McGovern, 251 East 66th St., New York, $5,800; electrical work, to W. H. Taverner Corp., 51 East 57th St., New York, $9,750. Grand total $198,042. Noted Nov. 19.

CHURCHES

PROPOSED WORK

Calif., Redding—Bd. Supervs. Shasta Co., plans by O. Deichmann, 110 Sutter St., San Francisco (1st unit), 1 and part 2 story, rein.-con. hospital. $70,000. Total est., $150,000 or more.

Conn., Meriden — Our Lady of Mt. Carmel Church, W. J. Lyddy, pastor, 109 Goodwill Ave., church. $150,000 or more. Architect not appointed.

Conn., New Britain—Italian Roman Catholic Church, P. Denugze, chn. Building Com., 84 Spring St., raising $150,000 funds for church. Architect not appointed. Noted Dec. 11.

Ill., Peru—St. Bedes College Assoc. R.F.D. 21, c/o Abbott Justice, 3 story monastery. $150,000.

Ill., Mooseheart—Loyal Order of Moose plans by Graham, Anderson, Probst & White, 80 East Jackson Blvd., Chicago, brick, stone church. $160,000. **Maturity in summer.** Noted Apr. 30, under "Schools."

Mass., Chicopee — St. Rose DeLima Parish, J. B. Lamothe, pastor, 583 Gratton St., Aldenville, convent. $150,000 or more. Architect not appointed.

Mass., Easthampton — Trinity Lutheran Church, E. P. Markel, pastor, 8 Chapel St., 1 story, basement church, Clark St. and Stone Path Lane. $150,000. Architect not appointed.

Mass., Norfolk — Commonwealth of Massachusetts, Dpt. P. Health, tentative plans by Stevens & Lee, 45 Newbury St., Boston, service building at Pondville Cancer Hospital. $190,000.

Mass., Scituate—Church of St. Mary of the Nativity, T. A. Quinlan, pastor, sketches by

Churches (Continued)

M. Sullivan, 100 Boylston St., Boston, 1 story, basement church. $150,000.

Mass., Worcester — All Saints Episcopal Church, J. H. Rever, pastor, 13 Ashland St., rebuilding church, recently destroyed by fire. $150,000 or more. Architect appointed soon.

Mo., Kansas City—Church of Christ Scientist, plans by Keene & Simpson, 1005 Land Bank Bldg., 2 story, basement, brick, steel, Belleview and Ward Parkway. $150,000. Project temporarily held up.

Mo., Pine Lawn (St. Louis P. O.)—St. Paul the Apostle Roman Catholic Church, c/o A. E. White, pastor, 4003 Jennings Rd., Pine Lawn, sketches by H. P. Hess, 1001 Ambassador Bldg., St. Louis, 1 story, basement, brick, steel, rein.-con. church. $150,000.

N. J., Plainfield — Crescent Avenue Presbyterian Church, J. J. Moment, pastor, 815 Park Ave., rebuilding 2 story, basement, brick, steel, East 7th St., Crescent and Watchung Aves. $150,000. **Maturity soon.** Architect not appointed. Noted Dec. 24.

N. J., Pleasantville—Wesley Methodist Episcopal Church, E. Mount, pastor, raising $150,000 funds 2 story, basement, brick, steel addition. $150,000. **Maturity soon.** Architect not appointed.

N. J., Toms River—St. Joseph's Church, G. C. Welsh, pastor, Toms River, altering 2 story parish house into parochial school and nun's home. $150,000. **Maturity soon.**

Pa., Erie—Mercyhurst Academy plans by W. T. Monahan, Erie, and takes bids about Mar. 1, brick, steel chapel. $150,000.

R. I., Cumberland—Sisters of Mercy, c/o A. J. Murphy, 25 Fenner St., Providence, archt., novitiate. $150,000. Noted Sept. 3.

R. I., Warwick—Woodbury Union Church, B. K. Wilcox, chn. com., revised sketches by Barker & Turoff, Grosvenor Bldg., Providence, altering and constructing 1 story, brick, stone church addition, West Shore Rd. $150,000. Noted May 28.

R. I., Westerly—Church of Immaculate Conception, J. F. Vincent, pastor, convent. $150,000. Architect not appointed.

Wis., Milwaukee—St. Roberts Church sketches by Maginnis & Walsh, Statler Bldg., Boston, Mass., church. To exceed $150,000.

BIDS ASKED

Ill., Chicago — Roman Catholic Bishop of Chicago, 719 North Wabash Ave., St. Andrews Roman Catholic Church, A. Griffin, pastor, bids about Feb. 15, 3 story addition, also moving present church, Paulina and Addison Sts. $155,000. J. W. McCarthy, 221 North La Salle St., archt.

N. J., Garfield—J. H. Dynes, archt., 15 Orient Way, Rutherford, bids about Apr. 1, on revised sketches 1 story, basement, brick, steel, stone addition, for First Presbyterian Church, R. W. Key, pastor, 132 Palisade Ave. $150,000.

N. J., Maplewood — R. Sillick, archt., 222 Market St., Newark, bids about Mar. 15, general contract 2 story, basement, brick, steel church, for Owner, c/o architect. $150,000. Noted Dec. 17.

N. J., North Haledon—Owner, c/o J. Bellomo, archt., 6 Park Ave., Paterson, bids about Feb. 15, general contract 3 story, basement, 50 x 110 ft., brick, steel chapel. $150,000. Noted Jan. 28.

N. J., Roselle—F. F. Durang, archt. 110 West Dudley Ave., Westfield, bids about Apr. 1, general contract 1 story, basement, 65 x 150 ft., brick, steel church, for St. Joseph's Roman Catholic Church, 3rd Ave. $150 000. Noted Jan. 7.

CONTRACTS AWARDED

Ala., Montgomery — Court Street Methodist Episcopal Church South, A. C. Davis, chn. Building Com., 201 Montgomery St., 2 story, 80 x 215 ft., and 2 story, 46 x 138 ft., Gothic type, concrete, steel, stone, U-shaped church and Sunday school, to Batson-Cook Co., West Point, Ga., $198,490. Noted Dec. 24.

SCHOOLS

PROPOSED WORK

Calif., San Gabriel—San Gabriel High School Dist. plans by Marsh, Smith & Powell, 316 West 5th St., Los Angeles, fireproof high school. $250,000. Bonds will be voted to finance.

Conn., Greenwich—Town, Bd. Educ., plans by W. F. Dominick, Stanwich Rd., Greenwich, and 19 West 44th St., New York, and takes bids latter part March, 2 story, basement, 60 x 220 ft., 14 room brick, steel school, Hendrie Ave. $275,000. Noted Dec. 3.

Ga., Atlanta—Spelman College, 66 Ella St. S. W., Morehouse College, Fair St. S. W., and Atlanta University, 643 Hunter St. N. W., library for joint use of their students. To exceed $250,000. **Maturity soon.**

Ill., Moline—Bd. Educ., plans by W. H. Schulzke, 5th Avenue Bldg., school. $175,000. **Maturity indefinite.**

Ind., Michigan City—St. Marys Parish plans by H. J. Gaul, 228 East Superior St., Chicago, Ill., 2 story, basement, concrete, brick, steel school addition, West 10th St. $150,000.

Ia., Dubuque—University of Dubuque science building. To exceed $150,000. This corrects report in Jan. 14 issue published under Illinois.

Md., Chestertown—Washington College, additional buildings, rebuilding some of present buildings to conform to general plan, also landscaping. To exceed $150,000.

Mass., Amherst — Commonwealth of Massachusetts, Dpt. Educ., Boston, administration building at Massachusetts Agricultural College. $150,000. Architect not appointed.

Mass., Deerfield—Deerfield Academy, F. Boyden, sketches by C. A. Platt, 101 Park Ave., New York, service building. $200,000. **Maturity indefinite.**

Mass., Everett—St. Josephs Parish, E. J. Vincent, pastor, 195 Buckman St., parochial school. $150,000 or more. Architect not appointed.

Mass., Hingham—Town, O. K. Collins, supt. schools, for Junior High School, 2 story, basement. $150,000-$200,000. Architect not appointed.

Mass., Holyoke — City, Mayor's Office, City Hall, sketches, remodeling old vocational school for addition to high school. $150,000 or more.

Mass., Lynn—St. Jean the Baptist Church, J. S. Vermette, pastor, 7 Endicott St., sketches by E. J. Laliberte, 86 Main St., Brockton, remodeling 2 story, basement, brick school. $150,000.

Mass., Longmeadow—Town, B. D. Remy, supt. schools, sketches by R. M. Mowry, 25 Harrison Ave., Springfield altering and constructing 2 story, basement, brick addition to Junior High School, Longmeadow Rd. $150,000.

Mass., Taunton—City, T. Scanlon, supt. Pub. Buildings, City Hall, altering and constructing 2 story, basement, brick school addition, County St. $125,000-$150,000. Architect not appointed.

Mass., Topsfield—Commonwealth of Massachusetts, Dpt. Agriculture, Boston, agricultural and industrial building on Topsfield Agricultural Society grounds. $150,000 or more. Architect not appointed.

Mass., Wellesley—Town, School Bd., 2 story, basement, brick, Hunnewell Dist. $150,000 or more. Architect not appointed.

Mass., Worcester — City, P. P. Spaulding, supt. Pub. Buildings, remodeling Classical High School. $150,000 or more. Architect not appointed.

Mass., Worcester — Immaculate Conception Parish, J. P. McCaughan, 47 Prescott St., school. $150,000. Architect not appointed.

Minn., Northfield—Carleton College, general campus development, incl. music hall, physics building, fine arts, museum, gymnasium and dining hall. To exceed $1,000,000. Noted Jan. 21.

Mo., Kansas City—Bd. Educ., plans by C. A. Smith, 800 Finance Bldg., Lincoln High School, 21st St. and Woodland Ave. $600,000.

N. J., Caldwell—Bd. Educ., High School, new sketches by C. W. Wands, 309 Bloomfield Ave., 2 story, basement, brick, steel, rein.-con., Central Ave. $200,000. Noted Dec. 24.

N. J., Cliffside—St. John's Roman Catholic Church, J. E. Kiernan, pastor, 235 Anderson Ave., 2 story, basement, brick, steel school addition. $150,000. **Maturity soon.** Architect not appointed.

N. J., Cranford—Bd. Educ., Holly St., bids about March on revised plans by H. B. Brady, 333 North Broad St., Elizabeth, 3 story basement, brick, steel, Union Ave. $250,000. Noted Dec. 24.

N. J., Demarest—Bd. Educ., revised sketches by E. Sibley, 1034 Edgewood Lane, Palisades, 2 story, basement, brick, steel, rein.-con. school. $150,000. Noted Oct. 1.

N. J., East Orange—Bd. Educ., 19 Winans St., plans by Guilbert & Betelle, 20 Branford Pl., Newark, 2 story, basement, brick, steel, rein.-con., Eastern Section. $150,000. **Maturity indefinite.** Noted Oct. 22.

N. J., Elizabeth—Bd. Educ., 417 South Broad St., 2 story, basement, brick steel, rein.-con. manual training and industrial art school. $250,000. Former plans abandoned. **Maturity in 1933.** Architect not appointed. Noted Sept. 17.

N. J., Englewood—Bd. Educ., Bergen Co., E. Harding, supt., 126 Main St., Hackensack, 3 story, basement, brick university. $150,000. **Maturity indefinite.** Architect not appointed.

N. J., Fairlawn—Bd. Educ., Boro Hall, plans by A. E. Sleight, Romaine Bldg., Paterson, Roosevelt School, 2 story, basement, brick, steel. $150,000. **Maturity indefinite.** Noted Oct. 22.

N. J., Glen Ridge—Bd. Educ., C. E. Freeman, pres., 2 story, basement, brick, steel, rein.-con. high school, Belleville and Sherman Aves. $150,000. **Maturity soon.** Architect not appointed.

N. J., New Brunswick—Dpt. Institutions & Agencies, State Office Bldg., Trenton, and Rutgers University, College Ave., rejected bids Jan. 18, 3 story, basement, 70 x 145 ft., brick, steel soil science building, State Experiment Farm. $150,000. A. Merchant, 1 Elm Row, archt. Noted Dec. 24.

N. J., Paterson—Bd. Educ., City Hall, 2 story, basement, brick, steel addition to Central High School, Hamilton St. $150,000. Architect not appointed.

N. J., Princeton—Princeton University, E. A. MacMillen, supt., plans by C. K. Klauder, 1429 Walnut St., Phila., Pa., Joline Dormitory, 2 and 3 story, basement, 35 x 500 ft., brick, steel. $150,000.

N. J., Ridgefield—Bd. Educ., Prospect St., altering and constructing 2 story, basement, brick, steel addition to School 3, Bergen Blvd. $150,000. Architect not appointed.

N. J., Union City—Bd. Educ., 415 Bergenline Ave., sketches by J. D. Lugosch, 744 Bergenline Ave., Central High School, 4 story, basement, brick, steel, rein.-con. $150,000. **Maturity about November.**

N. J., Waldwick—Bd. Educ. new sketches by Hacker & Hacker, 201 Main St., Fort Lee, 3 story, basement, brick, steel school. $150,000. Election in February to decide on bond issue. Previous project abandoned. Noted Oct. 22.

N. Y., New York—Columbia University, J. W. Barker, dean School Engineering, in charge, 116th St. and Bway., engineering school and shop and laboratory center. $20,000,000. Committees on site, endowment, etc., appointed. Noted Feb. 13.

N. Y., Oceanside (br. Rockville Center) — School Dist. 11, sketches by F. P. Wiedersinn, 240 Rockaway Ave., Valley Stream, 3 story high school addition, Foxhurst Rd. $400,000.

Okla., Norman — University of California, chapel with pipe organ. $250,000.

Pa., Wilkes-Barre—Owner, c/o G. W. Brooks, archt., 216 Smith St., Perth Amboy, N. J., sketches 2 story, basement, brick, steel catholic institution. $150,000.

R. I., Providence—St. Charles Boroneo Roman Catholic Church, sketches by W. F. Fontaine, 285 Main St., Woonsocket, parochial school. $150,000 or more.

Vt., Brattleboro—Town, J. E. Bushnel, 94 Elliot St., plans by H. K. White, 19 West 44th St., New York, 2 story, brick addition to high school, Linden St. $250,000. **Maturity in July or later.** Project dependent upon appropriation of funds. Noted Aug. 6.

Vt., White River Junction — Town, Superintendent Schools, sketches by Haynes & Mason, 280 Main St., Fitchburg, Mass., Junior High School, 2 story, basement, brick, stone, plain found. $150,000.

BIDS ASKED

Calif., Los Angeles—Feb. 5, by Regents University of California, 3551 University Ave., 3 story, basement, 65 x 130 ft., rein.-con., brick, terra cotta, concrete, hollow tile physics building, on campus. $200,000. Allison & Allison, 1005 California Reserve Bldg., archts. Noted Dec. 17.

Calif., San Francisco—H. A. Minton, archt., 525 Market St., taking bids group rein.-con. college buildings for Roman Catholic Archbishop of San Francisco, 1100 Franklin St. $300,000.

Ind., Tipton—Feb. 9, by St. Josephs Academy, for St. Katherne Hall, 2 story, basement, concrete, rein.-con., brick, limestone, hollow tile, limestone. $150,000. C. Houck, 515 Ashland Ave., Muncie, archt. Noted Jan. 14.

N. J., Bayonne—Hudson County, Parental School, 1241 Blvd., bids about Mar. 15, general contract 2 story, basement, brick, steel chapel, garage, Hudson Blvd. $150,000. C. Ziegler, 26 Journal Sq., Jersey City, archt. Noted Sept. 24.

N. J., Carlstadt—Bd. Educ., P. Sheridan, clk., Boro Hall, bids about Mar. 15, Grade and Junior High School, 2 story, basement, brick, steel, rein.-con., Washington St. $150,000 voted for same. G. F. Bial, 241 Bell Ave., Hasbrouck Heights, archt. Noted Jan. 21.

N. J., Clifton—Bd. Educ., High School Bldg., bids about Feb. 15, 2 story, basement, brick, steel addition to School 15, Gregory Ave. $200,900. Lee & Hewitt, 152 Market St., Paterson, archts. Noted Oct. 1.

N. J., Mount Bethel—Bd. Educ., bids about Mar. 1, general contract 2 story, basement, brick, steel, rein.-con. school. $150 000. Fisher & Brown, 102 North North Ave., Plainfield, archts. Noted Jan. 14.

N. J., Paterson—Bd. Educ., City Hall, bids about Feb. 15 on revised plans School 18, 2 story, basement, 180 x 275 ft., brick, steel, 3rd Ave., East 18th and 19th Sts. $675,000. Fanning & Shaw, 40 Ward St., archts. Noted Oct. 1.

N. J., West Fort Lee—Bd. Educ., J. C. Abbott, secy., High School, bids about Apr. 1. 2 story, basement school, Main and Linwood Aves. $150,000. Hacker & Hacker, 201 Main St., Fort Lee, archts.

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Schools (Continued)

N. Y., Grymes Hill (mail Staten Island) — Academy of Blessed Sacrament, c/o Mayers, Murray & Philip, archts., 2 West 47th St., New York, 2 story, basement, brick, steel school, convent. $150,000. Taking preliminary estimates of costs from contractors, indefinite when owner will take formal bids. Noted Nov. 19.

N. J., Ramsey—Bd. Educ., J. Y. Dates, pres., High School, bids about Mar. 1, 3 story, basement, brick, steel high school, incl. auditorium, gymnasium, cafeteria. $350,000. A. E. Sleight, Romaine Bldg., Paterson, archt. Noted Dec. 10.

N. Y., Suffern—Bd. Educ., Washington Ave. bids about Mar. 15, Junior and Senior High School, 2 story, basement, brick, steel. $250,000. L. C. Licht, 4 North Dean St., Englewood, archt. Noted Jan. 14.

N. J., Teaneck—St. Anastasia Roman Catholic Church, Robinson St., bids about Mar. 15, general contract 2 story, basement, 100 x 125 ft., brick, steel school, church, Teaneck Rd. and Robinson St. $150,000. DePace & Juster, 151 West 45th St., New York, archts. Noted Dec. 10.

Pa., Monica—Bd. Educ., I. H. Todd, pres., 1114 Atlantic Ave., taking bids Junior High School, 2 story, basement, 63 x 166 ft., brick, hollow tile, 11th and Pennsylvania Sts. $150,000. Stetson & Bradley, 710 East Franklin Ave., Aliquippa, archt. Noted May 28.

CONTRACTS AWARDED

Calif., Los Angeles—Roman Catholic Bishop of Los Angeles and San Diego, Higgins Bldg., 2 story Class B boys' school, incl. 40 x 300 ft. gymnasium, to Hart & Petley, 1424 4th St., Santa Monica, $119,499. Noted Jan. 7.

Conn., Westbrook—Town, J. H. Stanner, chn. Building Comn., 1 story, 110 x 155 ft., brick school, to Pieretti Bros., Centerbrook. $125,000-$150,000. Noted Dec. 24.

Conn., Windsor — Loomis Institute, N. H. Bachelder, headmaster, brick, steel, concrete gymnasium, incl. swimming pool, basket ball court auditorium, to R. F. Jones Co., 15 Lewis St., Hartford; excavation, to A. W. Lovell, 24 Vineland Terrace, Hartford. Est. $175,000. Noted Dec. 31.

Mass., Melrose—City, R. A. Perkins, mayor, at Mayor's Office, City Hall, general contract 3 story, basement, 180 x 215 ft., brick, steel, stone high school, to J. Shapiro & Son, 27 School St., Boston, $324,000; heating and ventilating, to R. H. Baker & Co., Inc., 145 Bway., Cambridge, $68,240; electrical work, to MacNeil Electric Co., 120 Jacques St., Somerville, $23,800; plumbing, to Lappin Bros. Co., 8 Union St., Walden, $18,643. Grand total $434,683. Noted Dec. 31.

N. J., Pompton Lakes—Bd. Educ., T. J. Hutton, dist. clk., 96 Perrin Ave., general contract Senior High School, to A. Christensen Co., Newark, $208,000; plumbing, to J. F. Pollman Co., Carlstadt, $23,963; electrical work, to Beach Electric Co., 81 Wallace St., Newark, $29,785; structural steel, to Passaic Steel & Iron Wks., Passaic, $13,900. Grand total $275,648. Noted Jan. 15 Daily.

N. Y., New Paltz—Commissioner Dpt. Educ., Education Bldg., Albany, completing practice school, to F. and C. Haerter, 769 Dewey Ave., West New York, N. J., $143,000; electrical work, to Engert-Hellman, Inc., Grand Central Terminal, New York, $6,675; sanitary work, to C. H. Darmstadt, 352 West 43rd St., New York, $7,400; heating, to Hudson Falls Hardware Co., Hudson Falls, $24,975. Grand total $182,050. Noted Dec. 24.

THEATRES

PROPOSED WORK

Me., Houlton—Aroostock Hotel, Inc., H. Marricott, pres., postponed indefinitely 3 story, basement, brick theatre, office, store, Main St. $150,000 or more. H. W. Rhodes, 145 High St., Portland, archt.

BIDS ASKED

N. J., Newark—Owner, c/o F. P. Friedman, archt., 9 Clinton St., bids about Mar. 15, general contract 2 story, basement, brick, steel theatre, store. $150,000. Noted Jan. 14.

CONTRACTS AWARDED

N. Y., New York—Todd, Robertson & Todd Engineering Corp., 347 Madison Ave., 26 elevators for 2 theatres and 1 office building, Radio City, to Otis Elevator Co., 11th Ave. and 26th St., for Metropolitan Square Corp., 61 Bway. Noted Jan. 28.

N. Y., New York—Todd, Robertson & Todd Engineering Corp., 347 Madison Ave., 76 elevators for 70 story tower building, Radio City, to Westinghouse Electric Elevator Co., 460 West 34th St., for Metropolitan Square Corp., 61 Bway., est. $2,500,000; 30,000 truck loads sand, gravel, grit, to Colonial Sand & Gravel Co., 551 5th Ave. Noted Mar. 19.

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OFFICES

PROPOSED WORK

Ill., Chicago—International Business Machine Corp., 323 West Madison St., soon lets contract, 2 story, basement, brick, marble office and display, 231-35 West Madison St. $200,000. N. M. Dunning, 306 South Wabash Ave., archt.

N. J., Montclair—A. E. Ramhurst, archt., 516 Bloomfield Ave., rejected bids Nov. 3, 2 story, basement, brick, steel office, store, Church St. and Fullerton Ave., for H. and D. Harris, 539 Bloomfield Ave. $150,000. **Maturity indefinite.** Noted Oct. 29.

N. J., Hackensack—Hackensack Water Co., Park Ave., Weehawken, office, Main St. $150,000.

Pa., Phila.—G. B. Roth, archt., 1629 Chestnut St., soon lets contract, 8 story, basement, 60 x 140 ft., rein.-con., brick, steel office store and broadcasting station, plain found., 1618-22 Chestnut St.

STORES

PROPOSED WORK

Mass., Boston — Odd Fellows Assn., c/o Twitchell-Champlin Co., 29 Sleeper St., reconstructing Odd Fellows Block, Tremont and Berkley Sts., recently destroyed by fire. $150,000 or more. Architect not appointed.

N. J., Long Branch—H. B. Seymour, archt., 512 McClellan Ave., rejected bids 2 story, basement, brick, steel store, apartment, Ocean Ave., for Peter Realty Corp., Long Branch. $150,000. May go ahead with smaller project. Noted Oct. 22.

N. J., Newark—Owner, c/o N. Siegler, archt., 164 Market St., revised plans 2 story, basement, brick, steel store and office, 55 Market St. $60,000. Larger project abandoned. Noted Oct. 8.

N. J., Newark—Owner, c/o Siegler & Greenberg, archts., 164 Market St., 3 story, basement, brick, steel store, apartment, Lyons Ave. and Parkview Terrace. $150,000.

N. Y., Elm Park—K. Weissglass, 2014 Forrest Ave., plans by M. G. Uslan, 57 Bay St., St. George, 2 story, basement, brick, steel store, office, garage, Forrest Ave. $150,000. Noted Jan. 21.

O., Cleveland—Wm. Taylor Son & Co., C. H. Strong, vice-pres., genl. mgr., 630 Euclid Ave., plans by Walker & Weeks, 2341 Carnegie Ave., altering interior 6 story, department store, 630 Euclid Ave

BIDS ASKED

N. J., Long Branch—H. I. Braun, archt., 191 Bway., bids about Mar. 10, general contract altering and constructing 3 story, basement, brick, steel, store and apartment addition, for J. Heleotis, 904 Bergh Ave., Asbury Park. $150,000. Noted Dec. 31.

CONTRACTS AWARDED

N. H., Lebanon—A. Densmore & F. E. Eastman, 178 Mechanics St., rebuilding 3 story, basement, brick, stone store, office, plain found., Mechanic St., to W. H. Trumbull, Lebanon St. Est. $150,000.

N. J., Montclair — Owner, c/o J. C. Dodd, archt., 189 Alexander Ave., Upper Montclair, altering and constructing 2 story, brick, steel store, office addition, Bloomfield Ave., to A. Pierson, 400 North Fullerton Ave. Est. $

PUBLIC

PROPOSED WORK

Mass., Boston—LIBRARY—City, P. Library Dpt., Copley Sq., branch library, Roslindale Dist. $150,000. Architect not appointed.

Mass., Lynn—ARMORY—Commonwealth of Massachusetts, State Quartermaster, new armory or addition. $150,000 or more. Architect not appointed.

Mass., Melrose—ARMORY—Commonwealth of Massachusetts, State Quartermaster, state armory. $150,000 or more. Architect not appointed.

Mass., Roslindale (sta. Boston)—POLICE STATION—City of Boston, Dpt. P. Buildings, police station for Police Div. 17. $150,000 or more. Architect not appointed.

Mass., Watertown—FIRE STATION—Town, Bd. Selectmen, 2 story fire station, Lexington St. $150,000. Architect not appointed.

Mass., Weymouth—AGRICULTURAL, etc.—Commonwealth of Massachusetts, Dpt. Agriculture, State House, Boston, state agricultural and industrial building. $150,000 or more. Architect not appointed.

N. Y., New York — COURT HOUSE — H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., for Eighth District Magistraets Court, East 180th St. and Morris Park Ave. $400,000.

N. D., Bismarck—CAPITOL—State Bd. Co trol tentative sketches by Holabird & Root, 3 North Michigan Ave., Chicago, Ill., capit building. $2,000,000. Noted Sept. 17.

BIDS ASKED

Calif., Martinez—HALL of RECORDS—Cl of Contra Costa Co., bids about Feb. 8, all wo except concrete, structural steel, elevators, gla and glazing contracts (which were previous awarded) for hall of records building for Cont Costa Co. Total est. $300,000. J. J. Donova 1916 Bway., Oakland, archt. Noted Dec. 3.

Mass., Boston—POLICE STATION, etc.—Fel 17, by City, Dpt. P. Bldgs., 2 story, basemen police station, North St., $150,000 or more; story, basement, tunnel administration buildin Richmond St., $150,000 or more, both bri stone, steel, plain founds. Gray & Hefferma 175 High St., archts. Noted Dec. 10.

N. J., Caldwell — BORO HALL — Bd. Boro Council, Boro Hall, bids about Apr. 1, 2 story basement, brick, steel, Westfield and Roselan Aves. $150,000. Guilbert & Betelle, 20 Bran ford Pl., Newark, archts. E. Powers & Son Inc., 20 Branford Pl., Newark, engrs. Noted Nov. 19.

CONTRACTS AWARDED

N. Y., Elmira—CELL BLOCK—Commissioner Correction, State Office Bldg., Albany, general contract remodeling interior cell blocks at New York State reformatory, to L. Levine, 305 Bway., New York, $279,000; heating, to J. T. Evans, 245 West Market St., Wilkes Barre, Pa., $16,800; sanitary work, to C. C. Grimm, 259 Delaware Ave., Buffalo, $31 277; electrical work, to L. M. Aber, Canisteo, $12,993. Grand total, $349,070. Noted Jan. 7.

N. Y., Saratoga Springs — FOUNDATION — Commissioner Architecture, State Office Bldg., Albany, found. for drink hall (monument), Saratoga Springs Reservation, to J. E. Lowe & Sons, 243 State St., Schenectady, $39,200; sanitation, to A. J. Eckert Co., 103 North Lake St., Albany, $1,970. Noted Dec. 24 Daily.

UNCLASSIFIED

PROPOSED WORK

Conn., Hartford—MUSEUM and GALLERY—Wadsworth Atheneum, 624 Main St., plans by Morris & O'Connor, 101 Park Ave., New York, 3 story, basement, rein.-con., stone, Atheneum Sq. $600,000.

Ill., Aurora — HOME — Bishop Old Peoples Home, W. George, trustee, sketches by G. S. Elmslie, 122 South Michigan Ave., 2 story, basement, rein.-con., stone, plain found. $300,000.

N. Y., New York—LIBRARY—Mercantile Library Assn., 13 Astor Pl., 8 story library 17 East 47th St. $250,000.

O., Cleveland—MAUSOLEUM—Metropolitan Memorial Building Co., c/o A. W. Harris, archt., B. F. Keith Bldg., sketches 1 story, 50 x 200 ft., marble, concrete, steel mausoleum. $150,000.

Okla., Norman—CAMPANILE—University of Oklahoma plans campanile with chimes and clock. $180,000.

Pa., Greenville—HOME for AGED—St. Pauls Orphans Home, J. Kunkel, pres., Greenville and Jamestown Rd., plans by E. B. Lee, Chamber of Commerce Bldg., Pittsburgh, brick, steel, Jamestown Rd. $200,000.

R. I., Woonsocket—HOME for AGED—St. Vincent De Paul Society, c/o J. F. Hogan, archt., Grosvenor Bldg., Providence, soon takes bids brick, stone home for aged, Blackstone St. $150,000. Noted Dec. 31.

BIDS ASKED

Mich., Detroit — HEADQUARTERS and OFFICE—Feb. 8, by F. Eurich, Jr., archt., Hoffman Bldg., 10 story, basement, 100 x 198 ft., reni.-con., brick, steel, plain found., 2nd Blvd., for Salvation Army, 564 Michigan Ave. $400,000. Noted July 9.

CONTRACTS AWARDED

Ill., Chicago—EXCHANGE—Holabird & Root, archts., 333 North Michigan Ave., general contract 4 story, basement, 115 x 124 ft., face brick, stone, to Lundoff-Bicknell Co., 100 North La Salle St., for Illinois Bell Telephone Co., 212 West Washington St. Est. $5,400,000. Excavation under way. Noted Jan. 7.

N. Y., Bedford Hills — EMPLOYEES, etc. — Commissioner Dpt. Correction, State Office Bldg., Albany, general contract employees building, laundry building, storehouse, to LaSala Mason Corp., 51 East 42nd St., New York, $248,169. Noted Jan. 7.

Okla., Enid—MARKET—General Development & Shares Corp., general contract 1 story, 150 x 225 ft., rein.-con., steel, terra cotta, to W. E. Krumrei, Enid. Est. $150,000. **Maturity about Apr. 1.**

Pa., Oakmont—EXCHANGE—Bell Telephone Company of Pennsylvania, 416 7th Ave., Pittsburgh, 3 story, basement, 36 x 57 ft., brick, steel, to W. F. Trimble & Sons, 1719 Pennsylvania Ave. Noted Jan. 7.

Industrial Buildings

FACTORIES AND MILLS

PROPOSED WORK

Ala., Birmingham—GAS PLANT—Birmingham Gas Co., 317 North 20th St., subsidiary A. E. Fitkin & Co. Ltd., 39 Bway., New York, gas plant improvements and line extensions. To exceed **$40,000.**

Ariz., Venezia—MILL—Westener Gold-Lead Mines Co., E. L. Tomlinson, pres. and mgr., 1,000 ton flotation mill and install 350 hp. diesel engine, 4 air compressor plants.

Conn., Meriden—PLANT—International Silver Co., J. A. Hutchinson, 48 State St., 1 story, 45 x 300 ft., brick, timber, State St. To exceed $40,000. **Maturity indefinite.** Architect not appointed.

Conn., Waterbury—PLANT—Bristol Co., G. Lewis engr., plans by F. A. Webster, 51 West Main St., 2 story plant addition, Platts Mills. $40,000 or more.

Fla., Jacksonville—GAS PLANT—Jacksonville Co., Jacksonville, subsidiary of A. E. Fitkin & Co., Ltd., 39 Bway, New York, gas plant improvements, extensions. To exceed $40,000.

Ill., Chicago—FACTORY—Owner, c/o F. M. Barton, archt., 3003 Blaine Pl., sketches 8 story, basement, 70 x 125 ft., brick, steel, terra cotta, **$100,000. Maturity in March or April.**

Ia., Council Bluffs — PLANT — Iowa Soda Products Co., L. F. Salisbury, mgr., rebuilding plant, destroyed by fire. $150,000.

Ia., Davenport—BAKERY—Hoglund Bakery Co., 801 West 2nd St., plans by W. E. Long Co., archts. and engrs., 155 North Clark St., Chicago, Ill., 1 story, basement, 60 x 150 ft., rein.-con., brick, steel, plain found., 3rd St. and Brown Ave. $60,000.

Mass., Barnstable — MANUFACTURING — Puritan Ice Cream Co., A. Rando, 3895 Washington St., Roslindale, manufacturing and sales plant. $50,000 Private plans.

N. J., Bloomfield—FACTORY—General Electric Co., M. Chapman, in charge, 5 Lawrence St., revised sketches 1 story, basement, brick, steel addition. $40,000. Private plans. Noted Nov. 10.

N. J., Englewood—CLOTHING FACTORY—C. G. Mattburg, archt., 16 Depot Square, prepared sketches and takes bids about April, general contract 2 story, basement, 250 x 400 ft., brick, steel, South Van Brunt St., for Max Undell & Sons, Inc., 46 West 23rd St., New York. $150,000. Project will go ahead depending on Chamber of Commerce raising $15,000 to pay for moving costs of owner from New York. Noted Jan. 14.

N. J., Jersey City—PLANT—Prospect Sash & Door Co., 73 St. Paul's Ave., rebuilding 2 story, brick, steel, 73 St. Paul's Ave. $40,000. Architect not appointed.

N. J., Jersey City—ICE PLANT—C. Ziegler, archt., 26 Journal Sq., rejected bids 1 story, basement, 100 x 103 ft., brick, steel, for Mongiello Bros., 625 Communipaw Ave. $50,000. Project will be abandoned. Noted Nov. 12.

Pa., Pittsburgh—BRICK PLANT—M. Lanz, 2907 Carson St., plans by Geisler & Smithyman, 335 Blvd. Allies, and takes bids about Feb. 1, 1 story, 40 x 60 ft., brick, steel, mill type, Jane and 34th Sts.

Tenn., Martin—SHIRT FACTORY—Sallant & Sallant sketches 1 story, 60 x 85 ft. concrete, brick, stone factory.

Tex., Houston—REFINING PLANT—Shell Petroleum Corp., Sterling Bldg., soon lets contract refining plant, additional stills and cracking unit, Deer Park. $250,000.

Man., Winnipeg—PLANT—Dominion Bridge Co. Ltd., 702 Canada Bldg., plant extension, Empress St. and Surry Ave. Private plans. **Maturity indefinite.** Noted Jan. 21.

Ont., Toronto—PLANT—Josiah Anstice Co., 97 Humboldt St., Rochester, N. Y. (manufacturers of hotel and kitchen equipment), plan Canadian unit. $40,000. Indefinite whether company will lease and equip an existing plant or build a new one.

BIDS ASKED

Me., Auburn—BAKERY—C. O. Eith, 164 Turner St., taking bids altering and constructing 1 story, basement, brick, tile addition, plain found., Spring and Hampshire Sts. $40,000. Pulsifer & Eye, Inc., 163 Main St., Lewiston, archts.

Mass., Webster—ICE PLANT—See "Contracts Awarded."

Mo., St. Louis—PACKING PLANT—Sieloff Packing Co., 4329 Natural Bridge Ave., bids about Feb. 10 on revised plans 1 story, 30 x 80 ft. condenser building, altering and constructing 3 story, 80 x 175 ft., brick, rein.-con. packing plant addition, 2 story, basement, 80 x 114 ft. brick, rein.-con. store, office, Natural Bridge Ave. Wedemeyer & Nelson, 824 Wainwright Bldg., and Bonnell-Tontz Co., 1515 North Grand Blvd., assoc. archts. Noted Oct. 8.

N. J., Bound Brook—FACTORY—Owner, c/o J. N. Pierson & Son, archts., 198 Jefferson St., Perth Amboy, bids about Mar. 22, general contract 1 story, basement, brick, steel industrial plant. $40,000.

N. Y., Elm Park—DAIRY PLANT—J. Weissglass, 2014 Forrest Ave., bids about Feb. 15, general contract 1 story, basement, brick, steel dairy plant, incl. pasteurizing plant, creamery and bottling plant, Forrest Ave. $40,000. M. G. Uslan, 37 Bay St., St. George, archt.

Pa., Franklin—MANUFACTURING PLANT—Venango Mfg. Co., 1st and Liberty Sts., subsidiary Franklin Railway Supply Co., 60 East 42nd St., New York taking tentative bids next week by invitation from 2 contractors plant, 1st and Liberty Sts. Private plans.

CONTRACTS AWARDED

Ark., Forrest City—OIL MILL—Forrest City Cotton Oil Mill, P. Hickey, mgr., general contract 1 story, incl. 90 x 200 ft. seed warehouse, 60 x 60 ft. cleaning room, two 1 story, 18 x 100 ft. unloading sheds, concrete, steel, to J. A. Moore, Forrest City, and Muskogee Steel Co., Muskogee, Okla.; materials, to Vaccaro-Grobmeyer Co., Forrest City. Est. $50,000.

Calif., Ione — CREAMERY and MILKING BARN—State Dpt. P. Wks., Div. of Architecture, Sacramento, general contract rein.-con. creamery and barn, to H. Schuster, 354 Hobart St., Oakland, $23,905; plumbing and heating, to C. T. Doell, 467 21st St., Oakland, $8,600; electrical work, to J. W. Thomas, 3216 L St., Sacramento, $1,650; refrigeration, to Carrier Eng. Corp. of California, 742 East Washington St., Los Angeles, $2,636. Grand total $36,791. Noted Dec. 24.

Calif., Los Angeles—ASSEMBLING PLANT, etc.—Chrysler Corp., W. P. Chrysler, in charge, 341 Massachusetts St., Detroit, Mich., 1 story, 300 x 850 ft. assembling plant, masonry walls, steel sash, ventilating system, cranes, stucco, Spanish design, containing 335,000 sq.ft. floor space, 2 story, 60 x 100 ft. administration building, to W. P. Neil Co., Inc., 4814 Loma Vista Ave. Est. $2,000,000 to $3,000,000. Noted Jan. 28.

Me., Kennebunk—FACTORY—Kesslen Shoe Co., 4 story, brick addition, plain found., to R. J. Grant, Kennebunk. Est. $40,000.

Mass., Boston — LAUNDRY — City, Hospital Dpt., 2 story, brick, stone, plain found., at city hospital, Harrison Ave., to J. A. Singarella, Park Sq. Bldg. $50,000. Noted Jan. 21.

Mass., Lynn—ICE PLANT—H. C. Batchelder, 170 Lynn St., Peabody, 1 story, 50 x 192 ft., brick artificial ice plant, Allerton St., to York Ice Mchy. Co., 200 Causeway St., Boston, Mass. Est. $40,000.

Mass., Quincy—OIL PLANT—Town River Oil Co., 36 Hill St., Quincy Point, bulk oil plant, incl. 5 vertical steel tanks, 47 ft. in diam. each, 30,164 bbl. capacity, to Granger Constr. Co., Chicago, Ill. Est. $40,000. Former contract rescinded. Noted Dec. 3, under "Contracts Awarded."

Mass., Reading—FACTORY—Ace Art Co., 12 Gould St., 1 and 2 story, rein.-con., brick, steel addition, to Martin White, Inc., 619 Washington St., Boston. Est. $40,000. Noted Jan. 7.

Mass., Webster—ICE PLANT—Webster Ice Co., A. H. McKinstrey, 2 story, brick, timber, West Main St., separate contracts. $40 000. Private plans.

Miss., Biloxi — ICE CREAM PLANT — Ness Creameries, C. Cox, mgr., 1 and 2 story, 50 x 100 ft., rein.-con., brick, steel sash, sheet metal, to W. C. Stout & Son, Jackson, $35,811. Noted Nov. 19.

N. J., East Rutherford—FACTORY—K. A. Lefren, Inc., archt., 171 Madison Ave., New York, 2 story, basement factory plant, to Ferber Constr. Co., 16 Johnson St., Hackensack, for Flintkote Co., Maple St. Est. $40,000. Noted Jan. 28.

Que., Ste. Therese—FACTORY—Zonite Products Co. Ltd., 405 Lexington Ave., New York, antiseptic manufacturing plant, to J. Gilletz & Co., 4392 City Hall, Montreal. Noted Nov. 19.

GARAGES

PROPOSED WORK

Mass., Deerfield—Deerfield Academy, F. Boyden, master, plans by C. A. Platt, 101 Park Ave., New York, brick, steel service station. $200,000. B. Dirks, 278 Main St., Greenfield, consult. engr.

N. J., Jersey City—J. Goldenberg, 80 Woodland St., revised sketches by C. Shilowitz, 26 Journal Sq., 4 story, basement, brick, steel garage, showroom, Sip and Summit Aves. $150,000. Noted Dec. 10.

BIDS ASKED

Mass., Framingham — C. Fantony, 373 Waverly St., taking bids 1 story, 65 x 115 ft., concrete, rein.-con., brick, steel service garage, concrete found., Waverly St. $40,000. I. Rosenblatt, 129 Concord St., archt.

CONTRACTS AWARDED

O., Cleveland—Goodyear Serv. Co., c/o Goodyear Tire & Rubber Co., 1144 East Market St., Akron, 2 story basement, 60 x 200 ft., brick, steel, concrete super-service station, office, East 13th and Chester Sts., to Hunkin-Conkey Constr. Co., Newman-Stern Bldg. Est. $150,000.

See proposal advertising on page 93

SHOPS AND FOUNDRIES

PROPOSED WORK

N. Y., Richmond—SHOP—Dpt. Hospitals, Municipal Bldg., New York, plans by Sibley & Fetherston, 205 East 42nd St., New York, 2 story, basement, brick, steel repair shop and garage. $85,000.

Pa., Leetsdale—FOUNDRY—A. Reid, 331 Beaver Rd., foundry, 360 1st St. **Maturity indefinite.** Private plans.

CONTRACTS AWARDED

Mich., Detroit—MACHINE SHOP and BOAT YARD—Gladwin Park Realty Co., 2512 Buhl Bldg., 1 story, 100 x 225 ft., rein.-con., brick, steel machine shop, boat yard, incl. 125 concrete lined boat wells, dredged canal 800 ft. long, 1,200 ft. turning basin, 12 ft. deep, Detroit River and Waterworks Park, to Russell Organization, Inc., 2055 Penobscott Bldg. Owner in market for machine shop crane, marine railway and equipment.

POWER PLANTS

PROPOSED WORK

Colo., Colorado Springs—City Council, c/o S. E. Nichols, clk., enlarging steam power plant, incl. large boiler, large turbine. $200,000. F. O. Ray, city engr.

Mass., Boston—City Hospital Dpt., plans by J. H. Ritchie & Associates, 250 Stuart St., Boston, power plant improvements at City Hospital, Harrison Ave. $240,000.

Mass., West Boylston—Town, Bd. Selectmen, municipal electric plant. $50,000 or more. Architect not appointed.

Mass., Worcester—Reed & Prince Mfg. Co., Duncan Ave., Diesel engine power plant at factory, Cambridge St. $100,000. F. J. Sill, Westboro, consult. engr., preparing plans.

N. Y., Delaware—New York State Electric & Gas Corp., 22 Central Ave., Ithaca, requested permission of Pub. Serv. Comn. to construct electric plant.

BIDS ASKED

Ore., Klamath Falls — See "Contracts Awarded."

CONTRACTS AWARDED

Ore., Klamath Falls—California Oregon Power Co., 58 Sutter St., San Francisco, Calif., 1,500 kw. substation and 22 miles transmission line at Tula Lake, near here, own forces. $40,000. H. P. Bosworth, Klamath Falls, div. mgr.

WAREHOUSES

PROPOSED WORK

Ia., Ottumwa—John Morrell & Co. sketches by H. P. Henschien, engr. and archt., 59 East Van Buren St., Chicago, Ill., and takes bids about Mar. 1, 7 story, basement, rein.-con., concrete, brick, steel cooling and storage building. $100,000.

Mass., Salem—McGrath Leather Co., Butler St., reconstructing 2 story brick warehouse, Butler St. $40,000. Private plans.

Okla., Oklahoma City — State Bd. Affairs, Capitol Bldg., sketches 1 story, 100 x 220 ft., rein.-con., brick warehouse and shops for equipment for Hy. Dpt., 23rd St. $60,000. C. L. Wilson, Capitol Bldg., engr.

Wis., Marshfield—S. J. Miller, 101 North Vine St., cold storage warehouse. $40,000. Architect not appointed.

Man., Winnipeg—H. L. McKinnon & Co. Ltd., Coca Cola Bldg., plans by J. N. Semmens, Great West Permanent Bldg., 2 story, 52 x 110 ft., concrete, stone warehouse, west side of Colony St., north of Portage Ave. $50,000.

CONTRACTS AWARDED

Calif., Upland — W. W. Ache, archt., 1616 West 4th St., Los Angeles, 3 story, 140 x 200 ft., rein.-con. (cork insulation) storage-packing plant, to W. J. Nethery & Son, 2259 Main St., Riverside, for Upland Lemon Growers Assn. Noted Jan. 21.

Okla., Enid—General Warehouse Co., general contract 2 story (ultimately 5 story), basement, 140 x 260 ft., concrete, rein.-con., steel terminal freight warehouse, to W. E. Krimrei, Enid. Est. $340,000.

Va., Roanoke—McKesson-Roanoke Drug Corp., concrete, brick warehouse, to J. F. Barbour & Sons, Roanoke, $60,000.

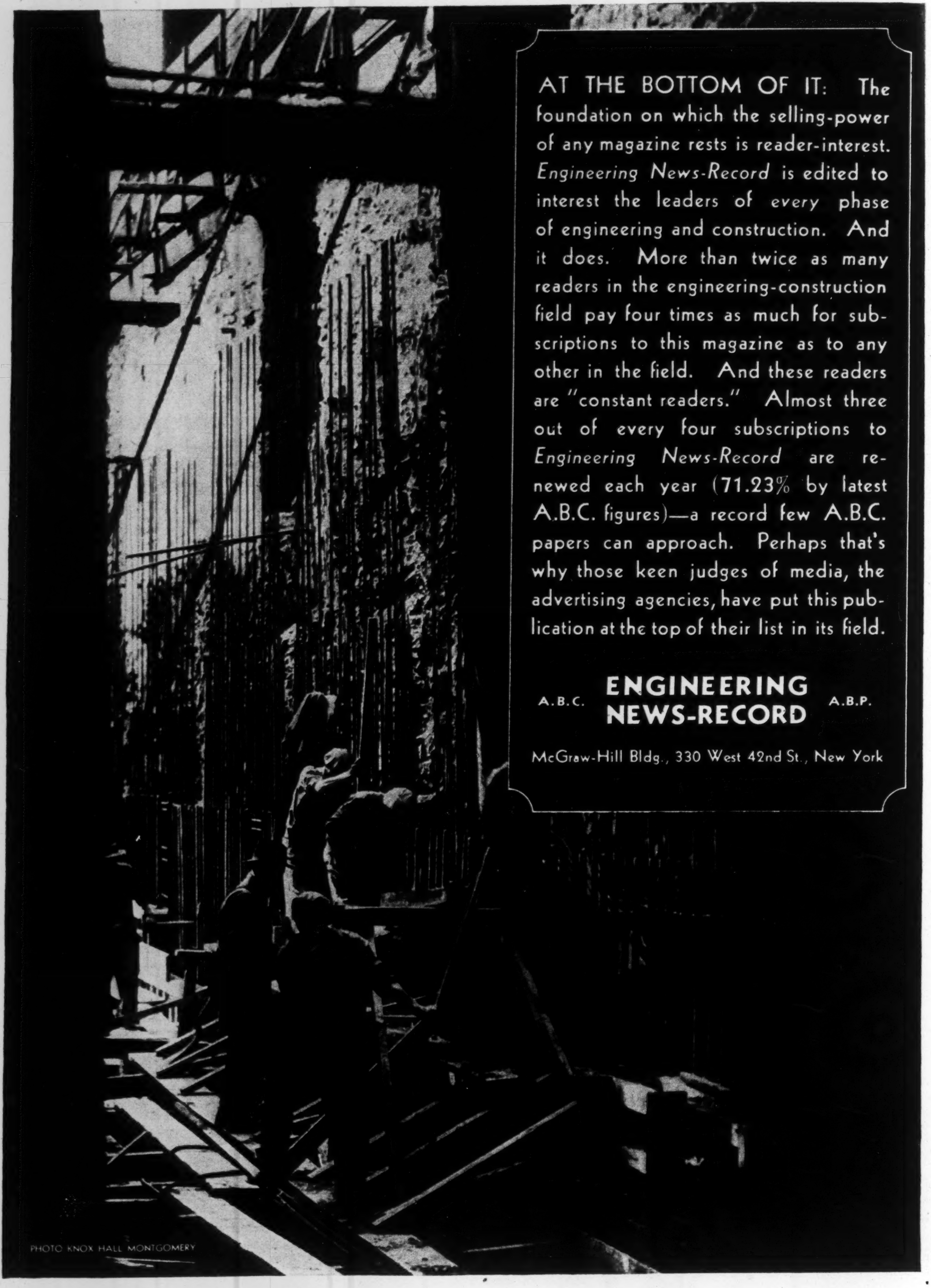

PHOTO KNOX HALL MONTGOMERY

AT THE BOTTOM OF IT: The foundation on which the selling-power of any magazine rests is reader-interest. *Engineering News-Record* is edited to interest the leaders of *every* phase of engineering and construction. And it does. More than twice as many readers in the engineering-construction field pay four times as much for subscriptions to this magazine as to any other in the field. And these readers are "constant readers." Almost three out of every four subscriptions to *Engineering News-Record* are renewed each year (71.23% by latest A.B.C. figures)—a record few A.B.C. papers can approach. Perhaps that's why those keen judges of media, the advertising agencies, have put this publication at the top of their list in its field.

A.B.C. **ENGINEERING NEWS-RECORD** A.B.P.

McGraw-Hill Bldg., 330 West 42nd St., New York

CONSTRUCTION NEWS

SECTION OF ENGINEERING NEWS-RECORD—FEBRUARY 11, 1932

WATERWORKS

PROPOSED WORK

N. Y., Pleasantville—Public hearing before New York State Water and Control Comn. for establishment of Hardscrabble Water District. $290,000. C. H. Sells, Inc., Pleasantville, engr.

BIDS ASKED

N. Y., Central Islip—Feb. 24, by Dpt. Mental Hygiene, State Office Bldg., Albany, 12 in. connecting water line at Central Islip State Hospital. F. W. Parsons, comr.; adv. E. N.-R. Feb. 11.

N. Y., Iroquois—Feb. 23, at office Executive Dpt. Div. Standards & Purchase, Capitol, Albany, water supply, at Thomas Indian School. F. L. Morris, supt.; dav. E. N.-R. Feb. 11.

N. Y., North Creek—Feb. 24, by Water Comrs. North Creek Water Dist., at rooms Barton Fire Dist. Hose Co., 280 ft. earth dam, 30 ft. high with concrete core wall, storage reservoir, 2 mi. 8 in. c.i. supply line; 100,000 gal. steel storage tank, 3¼ mi. 6 and 8 in. c.i. mains for distribution system, chlorinator and house for same, automatic pressure control relief valves for supply main for waterworks. Solomon & Keis, 257 Bway., Troy, consult. engrs.; adv. E. N.-R. Feb. 11.

N. Y., Hawthorne—Feb. 19, by Hawthorne Water Dist., Hawthorne Pub. School, 15 mi. 6- to 16-in. mains with appurtenances, 1 m.g. rein.-con. reservoir, pump house. To exceed $25,000. C. H. Sells, Inc., 15 Washington Ave., Pleasantville, engr. Noted Nov. 12; adv. E. N.-R. Feb. 11.

CONTRACTS AWARDED

N. J., Paterson—Passaic Valley Water Comn., 156 Ellison St., 200,000 gal. storage tank, to Pitsburgh-Des Moines Steel Co., Neville Island, Pittsburgh, Pa., $7,490. Noted Jan. 14.

SEWERS

PROPOSED WORK

Ill., Mendota—City Council, surveys completed, started plans 1 story brick building, filters, drying beds. $50,000. Engineering Serv., 59 South La Salle St., Aurora, engrs. **Maturity in late summer or fall.** Noted Oct. 29, 1930.

N. Y., New York—Dpt. Sanitation, Municipal Bldg., sketches by Sloan & Robertson, 420 Lexington Ave., 2 story, 81 x 193 ft. fertilizer building, $300,000, and 4 story storage building, $250,000, in connection with Wards Island Sewage Disposal Plant near Hell Gate Bridge. Noted Jan. 15, 1931.

Va., Waynesboro—See "Bridges."

BIDS ASKED

Calif., Los Angeles—Feb. 17, by Bd. P. Wks., City Hall, sewers in Anaheim Street and Badger Avenue Sewer Dist., incl. 961.87 lin.ft. vitr. pipe, 17,538 lin.ft. 8- to 24-in. cement pipe, 7,523 lin.ft. 8- to 27-in. rein.-con. pipe, 47 manholes, 11 junction chambers, 7 lampholes, 13 flushing structures, 74 manhole frame and cover sets, 14 vert. ft. manhole extension, 823 vert. ft. chimney pipe. To exceed $25,000. J. J. Jessup, City Hall, engr.

N. Y., Geneva—See "Contracts Awarded."

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◆

N. Y., Wallkill—Mar. 3, by Dpt. Correction, State Office Bldg., Albany, sewage disposal system at Medium Security Prison; adv. E. N.-R. Feb. 11.

O., Columbus—Feb. 17, by S. E. Ludwig, mayor-dir. of service, 540 ft. 48 in. and 2,925 ft. 42 in. concrete storm sewer in Broad St., from Alum Creek to Stanberry Rd., Bexley. $26,400. Jennings-Lawrence, 12 North 3rd St., engrs.

Pennsylvania—See "Power and Lighting."

Tex., Dallas—See "Contracts Awarded."

CONTRACTS AWARDED

Ariz., Miami—City Council, flood control work and storm sewer, incl. 15,550 sq.yd. 6 in. slab flood channel, 6,300 sq.yd. sidewalls, 3,600 sq.yd. sidewalk drains, cross overs, etc., to Driscoll Constr. Co., Pueblo, Colo., $81,003. Est. $95,000. Noted Aug. 14.

Calif., Los Angeles—See "Streets and Roads."

Neb., Omaha—City, storm sewers in Storm Sewer Dist. 1096 in 22nd St. from Locust to Spencer Sts. and in Spencer St. from 22nd to 24th Sts., to Beltz Constr. Co., Council Bluffs, Ia., $50,323.

N. Y., Brooklyn—H. Hesterberg, pres. Brooklyn Boro, Boro Hall, sewers in Remsen Ave., to J. Peconi Contg. Co., 4614 Glenwood Rd., $54,347; Glenwood Rd., to J. Loscharto, 2315 Avenue U, $7,908; Chestnut Ave., to L.E.G.A. Constr. Corp., $3,409. Grand total $65,644.

N. Y., Geneva—Bd. P. Wks., carrying March Creek under Lake St. and into Seneca Lake, day labor. $40,000. Noted Nov. 12.

Pa., Forest Hills—E. S. Smull, boro secy., 213 Cascade Rd., sanitary sewer, manholes, head walls, alterations to part of sewer to conform with new sewer, Dist. 3, to LeDonne & Casper, 7305 Frankstown Ave., Pittsburgh, $11,876. Noted Dec. 7.

Tex., Dallas—City, c/o E. Goforth, secy., sanitary sewers in South Cliff Heights, Elmore St. from Lindell to East Beckley Sts.; Browne St. from Lindell to Beckley Sts.; Graham St. from Lindell to Beckley Sts.; Ingle St. from Lindell to Beckley Sts.; Illinois St. west from Beckley to main line west of Chaney Sts.; South Cliff Heights from Louisiana to Elmore Sts., day labor. $27,415. O. H. Koch, dir. P. Wks.

BRIDGES

PROPOSED WORK

Ark., El Dorado—Bd. Supervs. Union Co. bids early in spring reconstructing, repairing bridges and gravel roads damaged by floods. $40,000.

Ariz., Parker—States of Arizona (Phoenix) and California (Sacramento) and U. S. Bureau Indiana Affairs, Wash., D. C., to appropriate $75,000 each (total $225,000) for steel, concrete bridge over Colorado River. Arizona Legislature memorializing Congress to appropriate funds for Indian Bureau's share.

Connecticut—State Hy. Dpt., Hartford, preliminary plans approved by City and U. S. Dist. Engineer, War Dpt., Providence, R. I., bridge between Hartford and East Hartford. Plans to be submitted to Division Engineer in New York. $3,000,000-$4,000,000. Robinson & Steinman, 117 Liberty St., New York, engrs. Noted Sept. 10.

Florida—State Roads Dpt., Tallahassee, 165 ft. bridge Rd. 1, Project 14-B, Santa Rosa Co., $100,000—340 ft. Peace River Bridge, Rd. 2, Project 1033-B, Hardee Co., $66,000—4,000 ft. Bridge of Lions, Rd. 4, St. Johns Co., $45,000—180 ft. South Jacksonville-Bayard Bridges, Rd. 4, Project 79-B, Duval Co., $30,000—1,200 ft. St. Lucie River Bridge, Rd. 4, Martin Co., $360,000—102 ft. Boynton Canal Bridge, Rd. 4, Palm Beach Co., $30,000—102 ft. Snapper Creek Bridge, Rd. 4-A, Project 909-B, Dade Co., $30,000—2,532 ft. overhead at Bruing, Rd. 5, Project 76-B, $110,000—and 1,460 ft. Six Mile Creek and A. C. L. Overhead Rd. 5, Project 76-D, $82,500, both Hillsborough Co.—900 ft. Suwanee River Bridge, Rd. 5-A, Lafayette and Suwanee Counties, $135,000—500 ft. Kissimmee River Bridge, Rd. 29, Project 1016, Okeechobee and Glades Counties, $20,000—217 ft. Peace River Bridge, Rd. 32, Project 977-B, Hardee Co., $44,000, all foregoing included in 1932 budget.

Va., Waynesboro—I. G. Vass, city mgr., plans Delphine Ave. Bridge, paving streets, new sewers.

Wis., Madison—Winnebago Co., E. M. Bird, comr., bridge over Wolf River, $75,000. C. H. Kirch, Madison, engr.

BIDS ASKED

California—Feb. 17, by State Hy. Comn., Sacramento, bridge to have eight 40 ft. steel beam spans with concrete deck on concrete bents and abutments with wing walls on pile founds. over San Antonio Creek, 1 mi. north of Los Alamos, Santa Barbara Co.; grading, untreated crushed gravel or stone surfacing 0.4 mi. road near Beaver Creek, Siskiyou Co. C. H. Purcell, ch. hy. engr.

California—Feb. 24, by C. H. Purcell, engr. State Hy. Comn., Sacramento, grading, asphaltic concrete surfacing 1.9 mi. road in Fullerton, Orange Co.; grading, concrete surfacing 0.8 mi. road between Sorrento Creek and Del Mar, San Diego Co.

Ill., Joliet—Dpt. Purchases & Supply, Springfield, 3 bridges, to Powers Thompson Constr. Co., Joliet, $116,061. Noted Dec. 24.

Indiana—Feb. 16, by State Hy. Comn., Indianapolis **(B.C. means Bridge Contract)**, two 40 ft. span rein.-con. girder bridge, 24 ft. roadway, over Buck Creek, near Muncie, B.C. 460-3-M-1305, Delaware Co.—one 48 ft. span steel truss bridge, 24 ft. roadway over Solomon Creek west of Ligonier, B.C. 461-6-M-1138, Elkhart Co.—two 28 ft. span rein.-con. girder bridge, 24 ft. roadway over Fisher Fork Creek—two 28 ft. span rein.-con. girder bridge, 24 ft. roadway over Dry Branch Creek, both southeast of Columbus, B.C. 462-7-D-1066 and 1067, Bartholomew Co.—20 ft. span rein.-con. slab bridge, 24 ft. roadway over Riggan Creek west of Lebanon, B.C. 463-32-B-582, Boone Co.—one span 50 ft. rein.-con. arch bridge, 32 ft. roadway over north fork Little Raccoon Creek—one span 24 ft. rein.-con. arch under-fill over Little Raccoon Creek, both near Waveland, B.C. 464-47-B-1193 and 1194—two 32 ft. span rein.-con. girder bridge, 24 ft. roadway over Indian Creek—one 30 ft. span rein.-con. arch bridge, 32 ft. road-

Constr. News page 45

Some of the Week's Large Projects

For further details turn to appropriate sections in this issue

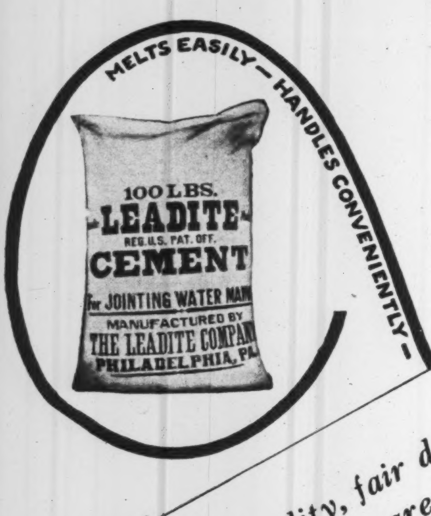
Location	*Project*	*Cost*	*Status*
Bridges			
Connecticut	Bridge	$3,000,000	Proposed
Streets and Roads			
Florida	Roads	4,535,000	Proposed
Federal Government			
Chicago	Custom house	1,150,000	Proposed
St. Louis	Federal building	2,570,000	Proposed
Newark (N. J.)	Post office	6,150,000	Proposed
New York	Federal court	10,700,000	Proposed
Buildings			
Washington	University buildings	1,000,000	Proposed
Chicago	High school	2,000,000	Proposed
St. Louis	Residential	1,500,000	Owner builds

See proposal advertising on page 61

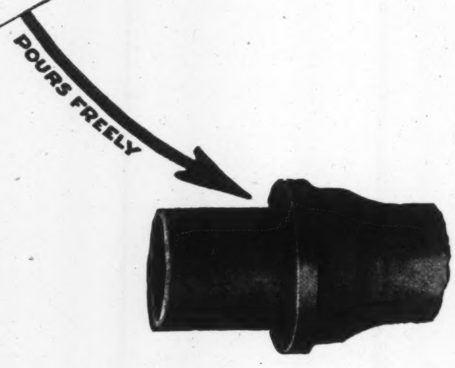
LEADITE

Trade Mark Registered U.S. Pat. Office

Experience Proves that it Makes a Good, Tight Joint,—which Improves with age.


MELTS EASILY—HANDLES CONVENIENTLY—
100 LBS.
LEADITE
REG. U.S. PAT. OFF.
CEMENT
for JOINTING WATER MAINS
MANUFACTURED BY
THE LEADITE COMPANY
PHILADELPHIA, PA.

Quality, fair dealing, and absolute integrity are the only values that cannot be inflated—or deflated.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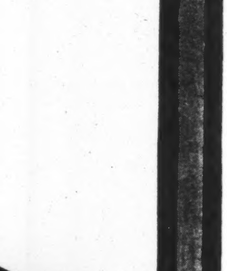

Bridges (Continued)

way over Conner Creek, both near Browns Valley. B.C. 465-47-B-1195 and 1196—one 52½ ft. span rein.-con. arch bridge, 24 ft. roadway over Rattlesnake Creek—one 12 ft. span rein.-con. slab bridge, 28 ft. roadway over fork of Rattlesnake Creek, both B.C. 466-47-B-1197 and 1198—70 ft. span rein.-con. arch bridge, 24 ft. roadway over Offield Creek, south of Crawfordsville, B.C. 467-47-B-1199, all Montgomery Co.—one 40 ft. span rein.-con. girder bridge, 24 ft. roadway over Clear Creek—one 32 ft. span rein.-con. girder bridge, 24 ft. roadway over Rock Bottom Creek, both southeast of Wadesville, B.C. 468-66-A-1129 and 1130—one 24 ft. span rein.-con. girder bridge, 24 ft. roadway over Parkers Creek—one 24 ft. span rein.-con. girder bridge, 24 ft. roadway over Sterns Channel, both B.C. 469-66-A-1131 and 1132, all southeast of Wadesville, Posey Co.—one 30 ft. span rein.-con. arch bridge, 32 ft. roadway over stream, B.C. 469-66-B-1133—one span 60 ft. rein.-con. arch bridge, 24 ft. roadway over Heneisen Creek—one 25 ft. span rein.-con. arch bridge, 32 ft. roadway over Winterheimer Creek, both B.C. 470-66-B-1134 and 1135, all southeast of Wadesville, Vanderburgh Co. J. J. Brown, dir.

Ia., Knoxville—See "Streets and Roads."

Michigan — Feb. 24, by H. G. Oakes, div. engr., Plymouth, M. Br. 1 of 47-10-2, Contrs. 2 and 3, one 40 ft. span rein.-con. deck girder, consisting extending existing abutments with 2 rein.-con. abutments of cantilever type, 40 ft. roadway, two 6 ft. sidewalks, rein.-con. floor and wearing surface over Shiawassee River, also grading, drainage structures 0.406 mi. M. 047-17C-3, Livingston Co., for State Hy. Comn., Lansing.

Pennsylvania—See "Streets and Roads."

CONTRACTS AWARDED

Iowa—State Hy. Comn., Ames 90 x 20 ft. bridge with two 40 x 20 ft. approach spans, also 9 culverts, extensions Keokuk Co., to A. Olson Constr. Co., Waterloo, $13,790—25 culverts, extensions, in Iowa Co., to M. O. Burnett, Marengo, $3,823—37 culverts, extensions, Marshall and Grundy Counties, to C. A. Holvik, Mason City, $6,870—raising, widening 24 x 18 ft. span slab bridge, same project, to Wickes Eng. & Constr. Co., 1441 Bluff St., Des Moines, $1,290—27 culverts, extensions, adding wearing surface to pony truss bridge, same project, to A. Willis, Shell Rock, $5,565. Grand total $31,338. Noted Jan. 28.

Ohio—O. W. Merrell, dir. hys., Columbus, three 40 ft. span, creosoted timber bridge with steel stringers over Little Raccoon Creek, 24 ft. roadway, Sect. "T" Pomeroy-Jackson Rd., Jackson Co., to A. E. Ebersbach, Middleport, $12,133—two 50 ft. span, concrete slab and girder bridge, 24 ft. roadway, two 3.5 ft. sidewalks, Sect. C-1, Mt. Pleasant-Rayland Rd., Jefferson Co., to P. Yandrich, Amsterdam, $12,357—36 ft. span concrete beam bridge over Wildcat Creek, Sect. "B" Continental-Payne Rd., Paulding Co., to S. Miller, St. Marys, $8,233—three 40 ft. span concrete beam bridge over Beaver Creek, 35 ft. roadway, Sect. "B" Grand Rapids-Bowling Green Rd., Wood Co., and three 70 ft. span, concrete filled spandrel arch bridge over Ottawa River, Sects. "E" and "F" Findlay-Delphos Rd., Allen and Putnam Counties, to Swisher & Fosnough, 429 13th Ave., Columbus, $30,472 and $30,609 respectively—three 45 ft. span, creosoted timber bridge with steel stringers over Whetstone Creek, 24 ft. roadway, Sect. "M" Ashland-Shelby Rd., Richland Co., to Clark & Williams, Akron, $13,291—39 ft. span rein.-con. slab and girder bridge over Brook's Run, Sect. "N" Barnesville-Bellaire Rd., Belmont Co., to E. Hatcher, Ingold Junction, $11,125—relocating 2.381 mi. road, to effect grade separation with Pennsylvania lines, concrete paving, 24 ft. span concrete slab bridge, 24 ft. roadway, 54 ft. center span, 43 ft. approach span, concrete bridge, steel beams, 24 ft. roadway, Sect. "C" Hamilton-Eaton Rd., Preble Co., to Ray Strawser, Inc., 852 North Cassady Rd., Columbus, $107,022. Grand total $225,242. Noted Jan. 14.

STREETS AND ROADS

PROPOSED WORK

Florida—State Road Dpt., Tallahassee, allocating $4,535,009 funds under 1932 Budget for constructing 463.94 mi. roads in 40 counties. B. M. Duncan, hy. engr.

BIDS ASKED

California—See "Bridges."

Calif., Los Angeles—Bd. P. Wks., City Hall, received no bids Jan. 27, improving 6,379 ft. Glyndon Avenue and Morningside Way Impvt. Dist. Project postponed. J. J. Jessup, City Hall, engr. Noted Jan. 21.

Florida—Feb. 16, by State Road Dpt., Tallahassee, H. H. Wells, chn., 6 x 20 in. flush concrete curbing, bituminous concrete and sheet asphalt on 8½ in. Florida limerock base paving 4.83 mi. Federal Aid Project 53-D Rd. 2, Lake Co.; 2.33 mi. Project 695-C Rd. 2, Lake Co. B. M. Duncan, state hy engr.

Ia., Knoxville — Mar. 8, at office Auditor Marion Co., 80,000 cu.yd. grading, 21 mi. resurfacing, 41.5 mi. new surfacing, erecting 5 culverts, extensions, re-erecting 70 x 18 ft. pony truss bridge with new approach spans.

Maryland—Feb. 16, by State Roads Comn., Baltimore, G. C. Uhl, chn., sheet asphalt paving 0.95 mi. Contr. BC-110-74, Balitmore City; concrete paving 1.25 mi. Contr. F-184-54, Frederick Co.; adv. E. N.-R. Feb. 11.

Md., Baltimore—Feb. 17, by Bd. Awards, improving 11,700 sq.yd. streets listed in Contr. 610. G. Cobb, Municipal Office Bldg., hys. engr.

Michigan—See "Bridges."

Michigan—Feb. 24 (extended date), by H. G. Oakes, div. engr., Plymouth, grading, drainage structures 0.434 mi. FO30-14C-1 Hillsdale and Lenawee Counties, for State Hy. Comn., Lansing. Noted Feb. 4.

Michigan—Feb. 25, by H. G. Oakes, Plymouth, div. engr., Plymouth, grading, drainage structures 5.242 mi. FO81-32C-1, Washtenaw Co., for State Hy. Comn., Lansing.

Mo., Clayton—Feb. 24, by St. Louis Co., Court House, concrete paving 21,241 ft. U. S. Hy. 77—22,466 ft. same road—49,950 ft. Brown Rd.—4,825 ft. McKnight Rd.—1,150 ft. Wellston Ave.—1,408 ft. Wellsmar Ave.; 4,080 ft. Brown Rd.—4,282 ft. Shady Ave. grading 3,140 ft. Lasky Rd., rein.-con. bridges over Bonhomme Creek, Reiger Rd., and over Sutter Creek, on Old Hall's Ferry Rd., etc. R. Jablonsky, Court House, co. engr.

N. J., Freehold—Feb. 17, by Bd. Freeholders Monmouth Co., Court House, furnishing, applying 160,000 gal. (more or less) tar road surface dressing, 235,000 gal. (more or less) asphaltic road oil with sand cover on roads. G. K. Allen, Jr., Red Bank, co. engr.; adv. E. N.-R. Feb. 11.

Ohio—Feb. 16, by O. W. Merrell, dir. Hys., Columbus, grading, draining, brick, concrete paving hys. in Ashland, Erie, Portage, Fairfield, Williams, Coshocton, Knox, and Sandusky Counties. This corrects report in Feb. 4 issue.

Pennsylvania—Feb. 26, by State Hy. Dpt., Harrisburg, surfacing 5 mi. roads in Bucks and Greene Counties; constructing bridges in Armstrong, Westmoreland, Bucks, Crawford, and Lawrence Counties. S. S. Lewis, secy.; adv. E. N.-R. Feb. 11.

Utah—Feb. 18, by State Hy. Comn., Salt Lake City, grading, graveling 9.5 mi. and 5 bridges on Salt Air Hy., Salt Lake Co. H. S. Kerr, state engr.

Wash., Seattle—Bd. P. Wks., City Hall, bids about Feb. 26, widening, grading, sewers, watermains, sidewalks, paving Aurora Ave. et al., from North 39th to North 73rd Sts., widening to 78 ft. width between curbs, providing 6 lanes traffic way. $796,000. D. W. McMorris, Seattle, engr.

CONTRACTS AWARDED

Ala., Montgomery—W. L. Jackson, city clk., asphalt paving 6,500 sq.yd. Buford St., to Hodgson-Jones Constr. Co., Montgomery, $16,839; sheet asphalt paving 1 block Watson Ave., to Van Gordon Constr. Co., Shepherd Bldg., $4,861.

Calif., Los Angeles—Los Angeles Co., grading, shaping, removing trees, curbing, guttering, sidewalks, drainage structures, sewers, culvert pipe, paving 3.48 mi. Vermont and Bixby Aves. from Ocean to Normandie Aves. and Amaranth and Normandie Aves. from Lomita Blvd. to Vermont Ave., to Peck Contg. Co., 2918 Denby Ave., $184,914.

Calif., Los Angeles—Metropolitan Water Dist. of Southern California, 207 South Bway., Los Angeles, grading, corrugated metal pipe culverts, 6.45 mi. road in vicinity of Desert Center and Shavers Summit (Entrance Hill Road), Riverside Co., to Martin Bros. Trucking Co., 1389 Gladys Ave., Long Beach, $13,055. Est. to exceed $15,000.

Iowa—State Hy. Comn., Ames, to Harrison Eng. & Constr. Co., Mutual Bldg., Kansas City, Mo., grading, drainage structures, paving 18.707 mi. Rd. in Marshall and Grundy Counties, $256,258, 3.99 mi. Keokuk Co. $66,518; 8.793 mi. Iowa Co., $132,907. Grand total $455,683. Noted Jan. 28.

Md., Baltimore—Bd. Awards, grading 60,000 cu.yd. streets listed in Contr. 607, to H. T. Campbell & Sons Co., Towson, $17,690. Noted Jan. 21.

Massachusetts—Dpt. P. Wks., A. W. Dean, engr., State House, Boston, bituminous macadam paving, incl. concrete arch bridge extension, rein.-con. bridge and plate girder bridge, 19,306 ft. hy Needham and Wellesley, to John F. Rooney & Co., 154 Main St., Milford, $231,095.

Michigan—A. L. Burridge, div. engr., Cadillac, to C. G. Milne, Saginaw, grading, drainage structures 4.805 mi. FO6-20C-2, $31,976; 4.634 mi. FO-20C-1 $9,351 and FO6-20C-3, $9,731, foregoing in Arenac Co.; 4.305 mi. FO65-18C-1 and FO65-18C-2, Ogemaw Co., $25,046—to Maurer Bros. Cadillac, 4.39 mi. FO24-22C-1 Emmet Co., $47,660. Grand total $123,764. Noted Jan. 7.

Michigan—H. W. Hagaman, div. engr., 208 Kresge Bldg., Port Huron, 30 ft. concrete widening, capping existing pavement 16.606 mi. MO77-C-4, St. Clair Co., for State Hy. Comn., Lansing, to Cleveland and Trinidad Paving Co., 715 Hammond Bldg., Detroit, $417,400. Noted Dec. 24.

Michigan—H. G. Oakes, div. engr., Plymouth, grading, drainage structures 4.276 mi. FO13-22C-2, Calhoun Co., to Grace Constr. & Supply Co., Marshall, $42,156; 3.598 mi. MO63-32C-1, Oakland Co., to Alpine Excavating & Trucking Co., 2154 Scott St., Detroit, $31,184, for State Hy. Comn., Lansing. Noted Jan. 7.

New York—A. W. Brandt, comr. Hys., Albany, grading, necessary structures on 1.61 mi. Grand Central Parkway, incl. separation of grades at Hollis Court and Springfield Blvds., Queens Co., to Tully & DiNapoli, Inc., 30-11 Sherman St., Long Island City, $280,622 est. $399,583—concrete and bituminous macadam repaving 1 mi. Center-Moriches-West Hampton Rd., Suffolk Co., to Heling-Walzer Corp., Bennett Pl., Lindenhurst, $93,825 est. $121,657—concrete paving 0.82 mi. Southern State Parkway, Nassau Co., to Johnson, Drake & Piper, Inc., 1st Natl. Bank Bldg., Freeport, $117,029; est. $153,469. Grand total $500,476. Noted Dec. 24.

N. Y., Brooklyn—H. Hesterberg, pres. Brooklyn Boro, Boro Hall, to Concrete Co., Metropolitan Ave., grading Gravesend Neck Rd. $9,798,—to W. J. McHale, 1250 Jefferson Ave., Cleveland St. $1,313—to Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., asphalt paving East 28th St. $5,774; East 34th St. $5,123; Avenue M $7,009; 96th St. $3,902; Ave. M $7,009—to B. Turecamo, New Cropsey Lane, grading Flatbush Ave. $75,426—to Meehan Paving Co., Laurel Hill Blvd., Long Island City, granite block paving Knickerbocker Ave. $11,796. Grand total $120,139.

O., Cincinnati—J. A. Root, dir. Dpt. P. Wks., grading, concrete curbing, cement sidewalks, concrete paving 8,500 sq.yd. Cavanaugh Ave., to Harper & Poage, 914 Main St., $40,536. Est. $47,584.

O., Cincinnati—Hamilton Co., grading, curbing, 9 in., rein.-con. paving 21,000 sq.yd. Delhi Rd., to Brewer & Brewer Sons, 906 Main St., $184,773. Noted Jan. 21.

Tex., Galveston—Galveston Co., Duraco treatment, topping for brick pavement 21 blocks Seawall Blvd. from 18th to 39th Sts., 54 ft., to Johnson Bros., Guaranty Bldg., at $0.37 per yd. total $27,123.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

Conn., Hartford — City deferred plans dike between Connecticut River and Commercial St., with grade changes in intersecting streets, railroad underpasses, incidental work. $400,000. R. N. Clark, city engr.

BIDS ASKED

Iowa—Feb. 16, at office C. R. Jones, aud. State Hy. Comn., Ames, filling gully adjacent to Rd. 34, near Mills-Pottawattamie Co. line, incl. 130,000 cu.yd. earthwork.

Wash., Bellingham—Feb. 23, by S. J. Humes, dir. hys., Olympia, replacing Chuckinut Creek Bridge with earth fill, incl. 71,000 cu.yd. earth and 30 cu.yd. rock excav., 330 cu.yd. rein.-con., 720 cu.yd. crushed stone surfacing, 1,150 lin.ft. guard rail, 156 lin.ft. concrete pipe culvert, 25 tons reinforcing steel, 22,000 m.b.m. lumber.

CONTRACTS AWARDED

Calif., Sacramento—Sacramento Co., 621,000 cu.yd. moving material to raise and strengthen levees, to Frank Contg. Co., 260 California St., San Francisco, $48,997.

B. C., Vancouver—Vancouver Harbor Comrs., foot of Dunlevy Ave., 250,000 yd. gravel fill for proposed extension of Lapointe Pier, to McKenzie Barge & Derrick Co. Ltd., 2216 Cambridge St., $125,000.

Bond Elections

Coming Bond Elections

High School—San Gabriel, Calif., High School Dist., Feb. 23, $250,000.

Bonds Voted

Sanitary Sewerage System—Monsanto, Ill., (P. O. E. St. Louis), $170,000.
Sewers and Disposal Plant — Oneonta, N. Y., $375,000.
Street Impvt.—Kilgore, Tex., $300,000.
Gas Plant and Distribution System — Oswego, Kan., $32,000.

Bonds Defeated

Sewers—Wayne County, Mich., $248,000.
Electric Light System — University City, Mo., $500,000.
School—Valley Stream, N. Y., $275,000.

FEDERAL GOVERNMENT

PROPOSED WORK

Ariz., Douglas—BORDER STATION—Treas. Dpt. at office Sup. Archt., Wash., D. C., prepared plans and takes bids this month border station. $45,000.

Calif., El Centro—POST OFFICE—Treas. Dpt at office Sup. Archt., Wash., D. C., bids in February, U. S. Post Office. $200,000.

Calif., Glendale—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans being completed by Lindsey & Eiden, 609 Union Insurance Bldg., Los Angeles, 2 story, basement, 100 x 230 ft., rein.-con., brick, granite, terra cotta post office with offices for Treasury Dpt., Bway. between Jackson and Louise Sts. $330,000. Noted Aug. 6.

—Calif., San Francisco—DOCK—Con. Q.M., Fort Mason, 118 x 148 ft. extension to Dock 2, Fort Mason. $165,000.

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Federal Government (Continued)

Fla., Pensacola—SEWERS — Spec. 6506—Yards & Docks, Navy Dpt., Wash., D. C., sewer and drain piping, manholes, sewerage reservoir, pumphouse, curtain walls, motor driven sewage and sump pumps, incl. control equipment, wiring, piping, drainage outlet ditches, U. S. Naval Air Station, Corry Field. $75,000.

Ill., Joliet—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans completed by J. E. Coyle, Rockford, 2 story, basement, brick, steel, rein.-con. addition. $185,000. **Maturity about Mar. 15.** J. O. Wetmore, Wash., D. C., acting superv. archt. Noted Sept. 10.

Ky., Ashland—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., rein.-con., brick, stone U. S. Post Office. $200,000. Site selected. J. A. Wetmore, c/o owner, acting superv. archt.

Mo., St. Louis—EXCAVATING and FOUNDATION—Treas. Dpt. at office Sup. Archt., Wash., D. C., soon takes bids on revised plans excavating and foundation for Federal Building, 12th and Market Sts. Total est. $2,570,000. Taxis & Becker, Chemical Bldg., and Mauran, Russell & Crowell, 1620 Chemical Bldg., archts. Revising plans on superstructure. Noted Jan. 21.

N. Y., Endicott—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $190,000. Site selected.

N. Y., Glen Cove—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $160,000. Site acquired.

N. Y., New York—FEDERAL COURT—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids in March, found. for federal court building, Park Row, Duane, Pearl and Park Sts. Total est., $10,700,000. Cass Gilbert, 244 Madison Ave., archt. Noted Apr. 30.

N. Y., Oswego—DREDGING—U. S. Eng., Buffalo, 101,500 cu.yd. ledge rock and 77,400 cu.yd. material other than ledge rock in Oswego Harbor. Noted Nov. 26.

N. C., New Bern—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $325,000.

N. C., Rockingham—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $120,000. Site selected.

N. D., Garrison—TEST BORINGS, etc.—U. S. Eng., Kansas City, Mo., 2,690 lin.ft. test borings, 100 lin.ft. open test pit, in Missouri River Valley, near here.

Tenn., Chattanooga—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids in March, 4 story, basement, 165 x 250 ft., rein.-con., structural steel, marble, granite walls, $890,000. R. H. Hunt & Co., 1st Natl. Bank Bldg., archts. Shreve, Lamb & Harmon, 11 East 44th St., New York, consult. archts. R. S. Fiske, 1421 Healey Bldg., Atlanta, Ga., consult. engr. Noted Aug. 27.

Tex., Randolph Field—COOLING SYSTEM—Con. Q. M. deferred opening bids for cooling system for administration building, at Randolph Field. Will readvertise. Noted Jan. 14.

BIDS ASKED

California—ROADS—Feb. 23, by C. H. Swetser, dist. engr. P. Rds., 461 Market St., San Francisco, grading, structures 4.097 mi. Hooper Valley Indian Reservation.

Conn., Manchester—POST OFFICE—Mar. 3, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office (except elevator); adv. E. N.-R. Feb. 11. Noted Sept. 24.

D. C., Wash.—HEATING PLANT—Mar. 7, by Treas. Dpt. at office Sup. Archt., Wash., D. C., boiler installation, incl. boilers, water walls, soot blowers, settings, casings, stokers, forced and induced draft fans in Central Heating Plant for Public Buildings; adv. E. N.-R. Feb. 11.

D. C., Wash.—STEEL SHAPES—Feb. 16, by Bureau Supplies & Accounts, Navy Dpt., steel shapes, electric wire and cable.

Idaho, Pocatello—POST OFFICE—Mar. 1, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office and Court House. Noted Apr. 30.

Ill., Chicago—CUSTOM HOUSE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about Mar. 1, general contract 7 story (ultimately 11 story), basement, 125 x 176 ft., rein.-con., Indiana limestone, concrete pile found., Canal and Harrison Sts. $1,150,000. Nimmons, Carr & Wright, 333 North Michigan Ave., and Burnham Bros., Inc., 160 North LaSalle St., archts. Noted May 21.

Kan., Ottawa—POST OFFICE—Feb. 29, by Treas. Dpt. at office Sup. Archt., Wash., D. C., extending, remodeling U. S. Post Office; adv. E. N.-R. Feb. 11.

Md., Westminster—POST OFFICE—Feb. 25, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office.

Mich., Grand Haven—REPAIRING SUBSTRUCTURE, etc., Mar. 9, by U. S. Eng., Milwaukee, Wis., repairing substructure and building concrete superstructure on 606 lin.ft. north pile revetment at Grand Haven Harbor; adv. E. N.-R. Feb. 11. Noted Jan. 21.

Minn., Duluth—WIRE ROPE—Feb. 17, by U. S. Eng., Canal Park, 3 pcs. 1¾ in. diam. x 230 ft. long, 1 pc. 1¼ in. diam. x 400 ft. long, and 1 pc. ¾ in. diam. x 650 ft. long, improved plow steel wire rope.

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Minn., Minneapolis—FOUNDATION, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., razing present buildings, excavating and foundation work for U. S. Post Office, to Standard Constr. Co., 1111 Plymouth Bldg., $63,490. Noted Oct. 29.

Mo., West Plains—POST OFFICE—Feb. 26, by Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling basement U. S. Post Office; adv. E. N.-R. Feb. 11.

Miss., Vicksburg—CREOSOTED TIMBERS—Feb. 16, by U. S. Eng., P. O. Box 667, 144 pcs. creosoted timbers, f.o.b. Monroe.

Mo., St. Louis—WELDING SET—Feb. 23, by U. S. Eng., one electric arc welding set complete.

New Jersey—DREDGING—Feb. 13, by U. S. Eng., 39 Whitehall St., New York, 11,395 cu.yd. in Passaic River; adv. E. N.-R. Feb. 11.

N. J., Newark—POST OFFICE and COURT HOUSE — Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about Feb. 29, general contract 5 story, basement, brick, steel, Vroom Alley, Washington, Walnut, Mulberry and Franklin Sts. $6,150,000. W. E. Lehman & G. O. Totten, 972 Broad St., archts. J. A. Wetmore, c/o owner, superv. archt. W. H. Dusenberry, 1841 Bway., New York, mechanical engr. J. DiSteffio, 972 Broad St., structural engr. Noted Dec. 31.

O., Fairfield—HANGAR—Mar. 2, at office Con. Q. M., Wright Field, Dis-assembly Hangar "A," Final Assembly Hangar "B" with annex, administration and oil reclamation buildings at Patterson Field; adv. E. N.-R. Feb. 11. Noted Dec. 31.

Pa., New Kensington—POST OFFICE—Mar. 2, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office; adv. E. N.-R. Feb. 11. Noted June 4.

Tex., Galveston—DREDGE HULL—Feb. 25, by U. S. Eng., constructing, delivering afloat 1 pipe line drdege hull; adv. E. N.-R. Feb. 11.

Tex., Galveston—IMMIGRATION STATION—Feb. 25, by Treas. Dpt., at office Sup. Archt., Wash., D. C., U. S. Immigration Station. $375,000 appropriated. Noted Oct. 22.

Va., Danville—HOSPITAL—Vet. Bu., Arlington Bldg., Wash., D. C., bids about May 1, general contract U. S. Veterans' Hospital. $700,000 appropriated.

Va., Langley Field—MAGAZINES—Mar. 2, at office Q. M., 4 magazines.

Va., Langley Field — TRANSFORMER VAULTS, etc.—Feb. 29, by Con Q.M., Langley Field, transformer vaults, transformer house and underground electric distribution system; adv. E. N.-R. Feb. 11.

CONTRACTS AWARDED

Idaho, Boise—WATER SYSTEM—Vet. Bu., Arlington Bldg., Wash., D. C., water system, incl. 30,000 gal. wooden tank, pipe, valves, fittings for U. S. Veterans Hospital, to E. Flessinger, Boise, $10,000. Est. $15,000. Noted Nov. 12.

Ill., Carlinville—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., concrete, brick, stone, to A. Clement Tobin & Co., 7235 Elmoro Ave., Richmond Heights, Mo., $49,500. Noted Dec. 17.

Mo., Kansas City—PUMPS, etc.—U. S. Eng., 707 Postal Telegraph Bldg., steam pump, to Wagener Steam Pump Co., 1101 8th St. S. W., Canton, O., $553; 1 steam boiler, to Erie City Iron Wks., Syndicate Trust Bldg., St. Louis, $650; welded fuel oil storage tank, to Butler Mfg. Co., 7400 East 13th St., $2,366; 10,000 ft. used wire rope, to Sonken-Galamba Corp., 64 North 2nd St., at $0.2475 per ft.

Tenn., Memphis—LUMBER—U. S. Eng., McCall Bldg., 203,200 ft. B.M. long leaf yellow pine lumber, 199,667 ft. yellow pine lumber, 55,000 ft. yellow pine lumber, 10,000 ft. cypress screen mould and 39,488 ft. yellow pine creosoted lumber, Lots 1 and 3, f.o.b. Bridge Junction, Ark., to Great Southern Lumber Co., Bogalusa, La., $9,663 and $1,489 respectively; Lot 2, f.o.b. Jasper, Ala., to R. F. Carr Lumber Co., Exchange Bldg., $3,205; Lot 4, f.o.b. Mobile, Ala., to Republic Creosoting Co., South and Water St., Mobile, Ala. $2,291. Grand total $16,646.

Pa., Allentown—EXCAVATION, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., excavating and concrete founds. for U. S. Post Office, to F. A. Oatman, Flint, Mich., $21,075. Noted Jan. 14.

Wis., Menasha—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to V. Chiabai & Co., Gary, Ind., $59,500 (360 days). Noted Jan. 7.

GRADE CROSSINGS

PROPOSED WORK

N. Y., Arlington—Staten Island Rapid Transit Co., Pier 6, St. George, eliminating grade separation. Project ordered and plans approved by Transit Comn.

N. Y., Cazenovia—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, eliminating grade crossing, Dunstan Rd., northwest of station. Pub. Serv. Comn. ordered plans and specifications prepared.

N. Y., St. Albans—Long Island R.R. Co., A. C. Watson, ch. engr., Pennsylvania Sta., New York, eliminating grade crossing, Lambertville Ave. and Pacific St. $400,000. Project or by Transit Comn. and delayed awaiting order to go ahead.

N. Y., Tioga—Erie R.R. Co., G. S. Fan ch. engr., Midland Bank Bldg., Cleveland and Lehigh Valley R.R. Co., G. T. Hand engr., 143 Liberty St., New York, revised p estimates approved by Pub. Serv. Co eliminating Waverly-Oswego Crossing. $125

CONTRACTS AWARDED

Wisconsin — State Hy. and Unemploy Comns., Madison, Truesdall Overhead, Ken Co., to Immel Constr. Co., Fond du Lac. 393; Bain Grade Separation and Silver L Overhead, Kenosha Co., to R. J. Eckenro & Co., Kenosha. $13,839 and $31,077 respecti Grand total $108,309.

POWER AND LIGHTING

PROPOSED WORK

Ill., La Grange—City Council, H. Daniels, ornamental street lighting system, concrete l ing standards, appurtenances in Peck A Spring, Catherine, Kensington, Stone, Brain Leitch, Edgewood, Cossett, Elm, Goodman S $300,000. **Maturity in late summer.** E. H cock, 1509 West Jackson Blvd., Chicago, eng

Kan., El Dorado—City, E. W. Grant, co completed plans municipal gas distribution sys tem and intermediate pressure type gas pl $226,000. Burns & McDonnell Eng. Co., Interstate Bldg., Kansas City, Mo., engrs. Noted Nov. 5.

N. Y., Sodus—Lake Ontario Power Co., Sodus, applied for permission to extend electric distribution system.

N. Y., Solvay—Syracuse Lighting Co., 121 South Warren St., gas distribution system. Application for permit made to [illegible] Serv. Comn.

N. Y., Syracuse—Syracuse Lighting Co., 121 South Warren St., applied to Pub. Serv. Comn. for permit to extend gas line and distribution system.

N. Y., Urbana — Donovan Constr. Co., Franklin St., Watertown, electric distribution line. Petition before Pub. Serv. Comn.

Tex., Rio Grande City—Rio Grande Pub. S Corp., preliminary surveys natural gas pipe line from gas pools around city into lower Rio Grande Valley. Private plans.

BIDS ASKED

N. Y., Brooklyn—Mar. 4, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, furnishing, installing power equipment for Fulton Street Line of Independent System of City-owned Rapid Transit Railroads.

Pennsylvania—Feb. 24, by J. L. Hanna, secy. Property & Supplies, Harrisburg, service lines, heating, plumbing, and electrical work, incl. concrete tunnel, sanitary sewer pipe, expansion joints, fittings, electric power and lighting conduits, cable wire, switches, manholes, pipe, pipe conduits, for Clarion State Teachers College, Clarion, $20,000; steam and return lines, incl. tunnel extension, manholes, pipe conduit, pipe, expansion joints, fittings, for State Teachers College at Mansfield, $50,000; service lines, tunnel and sewage disposal plant, incl. concrete tunnel, steel pipe racks, sanitary sewer, pipe, expansion joints, fittings, electric power and lighting conduits, cable wire and switches for Polk State School, Polk, $70,000. J. N. Chester Engineers, Clark Bldg., Pittsburgh, engrs.

PARKS AND SPORTS

PROPOSED WORK

Conn., Hartford — City, Bd. Park Comrs., plans by Ebbets & Frid, 15 Lewis St., municipal golf club at Keney Park. $25,000.

N. J., Newark—Dpt. Parks & Pub. Property, City Hall, playground development in connection with housing development by Prudential Insurance Co.

N. Y., Brooklyn—Park Bd., W. R. Herrick, pres. Park Dpt., Arsenal Bldg., Central Park, New York, park development, Bedford Ave. and Avenue Y. $85,000. Site acquired and landscaping, equipping will take place when funds are available.

N. Y., Long Island City—Dpt. Parks, Arsenal Bldg., Central Park, park development known as Playground 6, Honeywell St. and Hunters Point Ave. $175,000. Site selected. Will purchase and develop when funds are available.

N. Y., New York—Dpt. Parks, W. R. Herrick, pres. Park Bd., Arsenal Bldg., Central Park, developing park and playground site at Allerton Ave. To exceed $80,000. Site purchased. **Maturity indefinite.**

N. Y., Queens Village—Dpt. Parks, W. R. Herrick, pres. Park Dpt., Arsenal Bldg., Central Park, New York, developing, improving 1 acre in Hillside Park. To exceed $25,000.

N. Y., St. George—Dpt. Parks, W. R. Herrick, pres. Park Dpt., Arsenal Bldg., Central Park, New York, park development, landscaping, playgrounds, 19 acre Silver Lake addition. $150,000. Site selected and to be purchased when city financing permits.

S. D., Sioux Falls—City Comn. soon takes bids coliseum annex, 5th and Dakota Sts. Hugill & Blatherwick, Sioux Falls, archts.

Va., Lexington—Washington and Lee University stadium addition. $50,000.

Sports and Parks (Continued)

BIDS ASKED

Wis., Lake George—City, bids taking Feb. 5, 2 story recreation building, club rooms, dance hall, and locker rooms, and 60 x 400 ft. sand beach. $85,000. Pond, Pond & Martin, 180 North Michigan Ave., Chicago, Ill., archts.

CONTRACTS AWARDED

Ill., Chicago—Hole in One Corp., 123 West Madison St., 1 story, irregular shaped recreation center, refreshment stands, restaurant, dressing rooms, locker, 60 x 120 ft. swimming pool, archery range, tennis courts, driving range, putting course, parking space, River Rd. near North Ave., to Patrick Warren Constr. Co., 228 North La Salle St. Est. $100,000.

HEATING AND VENTILATING

BIDS ASKED

N. Y., St. George—Feb. 15, by W. C. Martin, archt. and supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, heating, ventilating, plumbing, drainage, electrical work and lighting fixtures, for Staten Island Vocational and Continuation School, Wall St. from St. Marks to Belmont Pls., for Bd. Educ., 500 Park Ave., New York.

Pennsylvania—See "Power and Lighting."

CONTRACTS AWARDED

Ill., Chicago—See "Factories and Mills."

UNCLASSIFIED

PROPOSED WORK

Calif., Los [illegible]s—RADIO STATION—Los Angeles Broadcasting Co., Station KFAC, 2027 South Figueroa St., broadcasting studio in penthouse of Cord Building, Wilshire Blvd., towers and transmitter on property of Adohr Creamery Co., at 18th St. and La Cienega Blvd. $115,000. **Maturity about March.** M. S. Adams, 2027 South Figueroa St., ch. electrical engr.

Me., Portland—TELEPHONE CABLE—New England Telephone & Telegraph Co., 45 Forest Ave., approved plans to expend $59,171 to place telephone cable in waterfront section, involving improving condition outside telephone plant, providing facilities in congested area, placing 12,736 ft. aerial cable, 15,656 ft. underground cable, 16,269 ft. taped armored cable, 800 ft. underground duct, 93 poles, removing 400,000 ft. covered wire, 5,781 ft. aerial cable and 21,442 ft. underground cable.

Mass., Boston — TRAFFIC SIGNALS — City. Traffic Comn., traffic control signals along Commonwealth Ave. $25,000 or more.

Mich., Dearborn—WALL—H. Ford plans by R. O. Derrick, Union Guardian Bldg., Detroit, brick, stone, wall and entrance gate around museum grounds, concrete founds. and ornamental iron. $35,000.

N. Y., Brooklyn—GATEHOUSE, etc.—Dpt. Hospitals, Municipal Bldg., New York, plans by L. P. Ward, 205 East 42nd St., New York, gate house and retaining walls, limestone, Clarkson and East New York Aves. $100,000.

N. Y., Brooklyn—METAL TANKS—Brooklyn Union Gas Co., 176 Remsen St., plans by L. S. Stiles, 176 Remsen St., two 23 x 110 ft. metal tanks, Varick and Maspeth Aves. $50,000.

N. Y., Brooklyn—PLATFORMS—New York Rapid Transit Co. (B.M.T. lines), 385 Flatbush Ave., widening, extending platforms at Beverley and Cortelyou Rds. $77,500. Transit Comn. approved plans for work.

N. Y., New York—COMFORT STATION—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., plans by W. H. Meyer, 4197 Park Ave., 23 x 59 ft. comfort station, Fordham Rd. and Sedgewick Ave. $40,000.

BIDS ASKED

Ill., Joliet—STONE CRUSHING PLANT—Feb. 16, by State of Illinois, Dpt. Purchases & Constr. Capitol Bldg., Springfield, H. H. Kohn, dir. galvanized iron and steel, incl. electric hoist and accessories, hoist motor-control system, hopper, chutes, dust elevator, storage bins, gates, spouts, electric travel chain hoist, signal system. $40,000. C. H. Hammond, Springfield, and 160 North La Salle St., Chicago, archts. Engineering Serv. Co., 605 North Michigan Ave., Chicago, engrs.

CONTRACTS AWARDED

Ariz., Kingman — REPEATER STATION — Postal Telegraph Co. repeater station, to G. B. Skidmore, Kingman, $40,000.

R. I., Providence—ELEVATOR, etc.—State, Providence Co. Court House Comn., furnishing all elevator equipment for new county court house, to Otis Elevator Co., 130 Clarendon St., Boston, Mass., $32,697. Noted Jan. [illegible]

MATERIALS

BIDS ASKED

BITUMINOUS MATERIALS—**Hartford, Conn.** —Mar. 30, by State Hy. Dpt., State Office Bldg., 165 Capital Ave., bituminous materials.

CEMENT, etc.—**Springfield, Ill.**—Feb. 2 to 25 in office Div. Purchases and Supplies of Dpt. Purchase and Constr., Capitol Bldg., cement, sand, gravel, industrial and workshop materials, autos, trucks, tires and supplies, roadbuilding and maintenance supplies, equipment, materials and machinery, etc. A. W. Daly, state purch. agt.

PNEUMATIC CASINGS, etc.—**Indiana**—Feb. 19, by J. J. Brown, dir. State Hy. Comn., Indianapolis, pneumatic casings and tubes, and solid tires. $5,000.

OIL or ASPHALT, etc.—**Indianapolis, Ind.**—Feb. 25, by Bd. Park Comrs., City Hall, 100,000 gal. tar oil or cut asphalt, 1,600 cu.yd. coarse grits, 300 cu.yd. sand, 3,000 cu.yd. gravel, 150 cu.yd. crushed stone. $25,000. J. W. Joseph, c/o owner, pres.

LUMBER, etc.—**Dennison, Ia.**—Feb. 17, at office Auditor Crawford Co., 264,400 ft. b.m. full sawed Class A Douglas fir, 43,600 ft. b.m. 10 lb. pressure treated Class A Douglas fir, 11,150 lin.ft. 10 lb. pressure treated yellow pine piling.

BRIDGE LUMBER, etc.—**Guthrie Center, Ia.** —Feb. 15, at office Auditor Guthrie Co., 11 cars bridge lumber, 2 cars piling, 1 car posts.

PIPE, PILING, GASOLINE, etc.—**Independence, Ia.**—Feb. 16, at office Auditor Buchanan Co., 44 ft. corrugated culvert pipe, 60,000 ft. creosoted fir, 90,000 ft. standard sawed fir bridge plank, 1,200 lin.ft. creosoted piling, 50,000 gal. gasoline.

PIPE, LUMBER, GASOLINE, etc. — **Knoxville, Ia.**—Mar. 8, at office Auditor Marion Co., 4,164 lin.ft. corrugated pipe, 10 car loads lumber and piling, 30,000 gal. gasoline, 1,200 gal. lubricating oil, 1,700 lb. grease.

LUMBER, PIPE, etc.—**Le Mars, Ia.**—Feb. 15, at office Auditor Plymouth Co., 16 cars lumber and piling, 3 cars metal culvert pipe.

LUMBER, etc.—**Osage, Ia.**—Feb. 16, at office Auditor Mitchell Co., 29,865 ft. b.m. 2 x 4—16 S4S douglass fir lumber, 4,800 ft. b.m., 12 x 12—20 and 24,000 ft. b.m. 3 x 12—16 rough Douglas fir lumber.

LUMBER, CEMENT, etc.—**Red Oak, Ia.**—Feb. 19, at office Auditor, Montgomery Co., 146,100 ft. b.m. fir lumber, 400 bbl. cement, 3,650 lin.ft. culvert pipe, and 30,000 lb. reinforcing steel to Red Oak, 27,600 ft. b.m. treated yellow pine lumber, 2,420 lin.ft. treated piling.

TAR ROAD DRESSING MATERIAL, etc.—**Freehold, N. J.**—See "Streets and Roads."

STEAM ASHES—**Long Island City, N. Y.**—Feb. 18, by G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., 10,000 cu.yd. steam ashes to Bureau Hys. as directed.

PORTLAND CEMENT—**New York, N. Y.**—Feb. 16, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., 5,000 bags portland cement; 100,000 gal. fuel oil; 17,000 cu.yd. steam cinders.

TRACK MATERIALS—**New York, N. Y.**—Feb. 19, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., supplying track materials, incl. bolts, nuts, washers, spikes, open hearth track rail, tie plates, malleable iron and cast iron, joint bars and special work.

SAND, etc.—**New York, N. Y.**—Feb. 15, by S. Levy, pres. Manhattan Boro, Municipal Bldg., 3,500 cu.yd. concrete and paving sand; 100,000 gal. gasoline; 4,000 tons inorganic dust; 50,000 gal. furnace oil; 4,000 cu.yd. sand grit.

GRAVEL — **Canton, O.** — Feb. 16, by C. S. Bolender, dir. P. Service, furnishing 5,000 cu.yd. gravel to be graded from ¼ in. up to and not exceeding 1¼ in. and containing 20 to 25% crushed stock, all to be thoroughly cleaned and satisfactory to Director P. Serv.

CEMENT, SAND, etc.—**Scranton, Pa.**—Feb. 23 by W. A. Schunk, diir. Dpt. P. Wks., 600 tons (2,000 lb.) asphaltic cement; 600 tons (2,000 lb.) limestone dust; 6,000 tons (2,000 lb.) asphaltic sand; 24,000 gal. fuel oil, f.o.b. municipal plant, West Olive St. and Providence Rd.

CEMENT, GRAVEL, CRUSHED STONE, etc. —**Otey, Tex.**—State Bd. Control, c/o C. Teer, chn., Austin, bids about Feb. 15, furnishing materials, incl. cement, gravel, crushed stone, sand, rein.-con. steel, structural steel, metal screens, corrugated asbestos, mill work materials, plumbing and electric fixtures, for dormitory building. Giesecke & Harris, Norwood Bldg., Austin, archts.

GASOLINE and OILS—**Virginia**—Feb. 23, by State Hy. Dpt., Richmond, 1,570,000 gal. gasoline, 77,250 gal. automotive lubrication oil; adv. E. N.-R. Feb. 11.

LUMBER, etc.—**Milwaukee, Wis.**—Feb. 19, by Central Bd. Purchases, Municipal Bldg., 44,000 ft. b.m. white oak untreated, 31,133 ft. yellow pine, untreated, and 2,430 ft. yellow pine creosoted, 1,000 gal. green bridge paint. J. W. Nicholson, purch. agt.

CONTRACTS AWARDED

RIP RAP STONE—**Iowa**—State Hy. Comn., Ames, 8,000 tons rip rap stone, to Standard Supply Co., 403 Valley Natl. Bank Bldg., Des Moines, $6,400. Noted Jan. 28.

LUMBER, PILING, etc.—**Mount Ayr, Ia.**—Ringgold Co., 2,592 ft. treated piling, 21,440 ft. treated lumber, 30,712 ft. b.m. full sawn lumber, 200,108 ft. b.m. standard sawn untreated lumber, 33,732 ft. b.m. S4S untreated lumber, to Wheeler Lumber, Bridge & Supply Co., 606 Hubbell Bldg., Des Moines, $12,374; 1,400 ft. corrugated pipe, to Iowa Culvert & Pipe Co., Des Moines, $1,019; miscellaneous hardware, to Redding Lumber & Hardware Co., Redding, $275; paint, to Sherwin-Williams Co., 2001 West Pershing Rd., Chicago, Ill., $184. Grand total $13,852. Noted Dec. 24.

REINFORCING STEEL—**Augusta, Me.**—State Hy. Comn., Augusta, 2,700,000 lb. reinforcing steel, to Bancroft & Martin Rolling Mills Co., Ligonia St., South Portland, at $0.0271 per lb.

CONCRETE PIPE—**Baltimore, Md.** — Bd. Awards, furnishing rein.-con. pipe as listed in Material Contr. 87, to Gray Concrete Co., Duncan Lane. $27,990.

SEWER PIPE—**Minneapolis, Minn.**—F. S. Gram, city purch. agt., vitr. clay tile sewer pipe various sizes, for 1932 season, to Red Wing Sewer Pipe Co., 614 Metropolitan Life Bldg. Noted Jan. 28.

WATER PIPE—**Minneapolis, Minn.**—F. S. Gram, city purch. agt., 8,494 lin.ft. 24 in. centrifugal c.i. water pipe, to Amer. Cast Iron Pipe Co., 712 Plymouth Bldg., at $3.45 per ft. 11,555 lin.ft. 30 in. c.i. water pipe, to United States Pipe & Fdry. Co., Webb Crawford Bldg., Birmingham, Ala., $67,015 by rail and $63,195 by barge. Noted Jan. 7.

PORTLAND CEMENT — **Long Island City, N. Y.**—G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., 3,000 bags cement, to S. B. Duffy, 2nd Ave. and 51st St., Brooklyn, $1,290; 2,000 cu.yd. mineral aggregate, to E. B. Simpson, Inc., Jamaica Ave., Hollis, $3,680. Noted Jan. 7.

ASPHALTIC CEMENT, etc.—**New York, N. Y.** —H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., to Warner Quinlan Co., 2 Park Ave., 500,000 gal. asphaltic cement, $19,700; to Barrett Co., 40 Rector St., 200,000 gal. tar for patching $25,600, 200,000 gal. bituminous road surfacing material for cold application $16,000, 200 tons pitch joint filler $4,000; to C. W. Crane, 17 Battery Pl., 14,000 cu.yd. asphaltic sand, $13,160; to New York Trap Rock Co., 250 Park Ave., 10,000 cu.yd. binder stone $18,500, 5,000 cu.yd. ¾ in. stone $13,650, 1,600 tons inorganic dust $10,144; to C. D. Beckwith, Inc., Seneca Ave. and Edgewater Rd., 2,500 cu.yd. concrete and paving sand $4,245, 4,000 cu.yd. sand grit $8,800. Grand total $134,399. Rejected bids Jan. 19, 1,200,000 gal. road surfacing material and 10,000 bags portland cement. Noted Jan. 14.

GUARD RAIL—**Cleveland, O.**—Cuyahoga Co., furnishing, erecting 52,800 lin.ft. standard concrete and cable guard rail along roads, to National Eng. Co., 8210 Harvard Ave., $16,896. Est. $26,400.

PIPE—**Vernal, Utah**—City Comn., 32,500 4- to 10-in. cast iron pipe, to Waterworks Equipment Co., 149 West 2nd St., Salt Lake City, $32,000. Noted Nov. 19.

PIPE—**Pasco, Wash.**—City, 2,080 ft. 6 in. and 3,545 ft. 10 in. c.i. pipe, to Amer. Cast Iron Pipe Co., Smith Tower Bldg., Seattle, at $0.58 and $1.09 per lin.ft. respectively.

OIL, CABLES, etc.—**Milwaukee, Wis.**—Central Bd. Purchases, 610,000 gal. bituminous road surfacing oil, to Koppers Products Co., 110 East Wisconsin Ave., at $0.118 per gal.; 153,000 ft. lead covered steel taped cable, to Graybar Electric Co., 778 North Milwaukee St., $15,712; 115 tons Class D spec. water castings and 31 tons offset pipes, to Municipal Foundries, 1634 South 84th St., at $61 and $82 per ton respectively; 200 manhole frames and lids, to Hiler & Stowell, 147 East Becker St., $1,950.

EQUIPMENT

BIDS ASKED

TRUCKS, etc.—**Springfield, Ill.**—See "Materials."

MAINTENANCE OUTFIT, etc.—**Vinton, Ia.** —Feb. 15, at office Auditor Benton Co., 1 maintenance outfit, 6 rotary fresnos.

TRUCKS — **Kingston, Pa.** — Feb. 24, by Kingston Boro, 1½ ton truck, 4 or 6 cylinder, rear dual heavy duty tires mounted with 1½ to 2 cu.yd. steel dump body with underbody hoist; ½ ton truck, 4 or 6 cylinder, rear light delivery pneumatic tires, ½ cu.yd. steel dump body. R. L. Williams, 31 Price St., engr.

FOREIGN

Cuba, Santiago de Cuba—Swift & Co., Packers and Exchange Aves., Chicago, Ill., plans reconstructing plant and storage from earthquake damage. To exceed $40,000. **Maturity indefinite.**

France—Paris-Orleans Railroad, Paris, plans electrification of line from Paris to Orleans. Alsthom Co., Paris, has received contract to install and equip all distributing centers of lesser importance at 1,500 volts on the line from Orleans to Tours, the current to be supplied by plant of Massif Central (center of France) by means of a line at 220,000 volts which will be installed this year and for which Alsthom Co. is also to act as contractor. Est. to exceed $25,000,000.

Union Socialist Soviet Republics — United Constr. Equipment Industry Div. of Soviet, c/o Amtorg Trading Corp., 261 5th Ave., New York, excavating equipment plant, in Ural Dist., by day labor and technical aid contracts.

Union Socialist Soviet Republics—Ural Coal Trust Div. of Soviet, c/o Amtorg Trading Corp.

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Foreign (Continued)

261 5th Ave., New York, plans opening and developing mines for lignite deposits for 3,000,000 ton annual production, along Chehabinsk-Troitzk Railroad, in Southern Urals.

U. S. S. R., Ligovo—Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, typewriter manufacturing plant, by day labor and technical aid contracts. To exceed $40,000.

U.S.S.R., Samara—Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, plans additional units for factory to manufacture transmission gears, shafts and ball bearings, on Volga River, through technical aid contracts. To exceed $1,000,000.

Commercial Buildings

RESIDENTIAL

BIDS ASKED

Mass., Brighton (sta. Boston)—See "Contracts Awarded."

N. J., East Orange—See "Contracts Awarded."

N. J., Elizabeth—See "Contracts Awarded."

N. Y., Brooklyn—See "Contracts Awarded."

N. Y., New York—See "Contracts Awarded."

CONTRACTS AWARDED

Mass., Brighton (sta. Boston) — R. & R. Constr. Co., c/o L. E. Rudnick, 1945 Commonwealth Ave., two 3 story, basement, brick, stone apartment units, plain founds., Kilsyth Rd., day labor. $160,000. S. E. Moffie, 10 Tremont St., Boston, archt. Noted July 2, under "Contracts Awarded."

Mo., St. Louis—Ball Lumber & Supply Co., C. F. Vatterott, Jr., Clayton, plans 300 residences in St. Louis and St. Louis Co. during 1932. $1,500,000. Work will be done by building dept. of owner along mass-construction plans.

N. J., East Orange—Owner, c/o Warren & Warren, archts., 31 Clinton St., Newark, 4 story, basement, 100 x 140 ft., brick, steel, 499 William St., separate contracts. $300,000.

N. J., East Orange—A. Simone, c/o D. J. Serocco, archt., 60 Park Pl., Newark, general contract 4 story, basement, 85 x 135 ft., brick, steel, 4th Ave. east of Arlington Ave., to D'Ellia Constr. Co., 972 Newark Ave., Jersey City. Est. $150,000. Separate contract bids rejected. Architect now taking bids on plumbing, heating, electrical work. Noted Feb. 2, under "Contracts Awarded."

N. J., Elizabeth—Westcourt Apartments, Inc., M. Falkenflick, pres., 635 Wyoming Ave., 3 story, basement, brick, steel, Westfield Ave., separate contracts. $150,000. Bids in April. J. B. Beatty, 15 North Reid St., archt.

N. Y., Brooklyn—Cameo Constr. Co., 1482 East 46th St., apartments, Avenue L and 49th St., separate contracts. $150,000. I. Kallich, 375 Fulton St., archt.

N. Y., New York—Charland Building Corp., 1430 Crosby Ave., apartment, Powell and Virginia Aves., separate contracts. $150,000. Private plans.

N. Y., New York — Corporation, c/o J. J. Goldberg, 332 East 149th St., 6 story, Ogden Ave. and 169th St., separate contracts. $150,000. I. L. Crausman, 332 East 149th St., archt.

N. Y., New York — Corporation, c/o S. J. Kessler, archt., 125 West 45th St., 6 story apartment, Tiebout Ave. and 182nd St., separate contracts. $350,000.

N. Y., New York — Stanrick Realty Corp., 1746 Andrews Ave., 4 story, 87 x 151 ft., Burdy St. and Starling Ave., separate contracts. $150,000. N. Rotholz, 155 East 42nd St., archt.

CLUBS

PROPOSED WORK

N. J., Hackensack—Odd Fellows Assn., 153 Main St., sketches by C. V. R. Bogert, 210 Market St., 2 story, basement, 40 x 120 ft., brick, steel club house, hall, Warren St. $150,000.

N. Y., Brooklyn—Nurses Club of Brooklyn, G. Hewlett, pres., 66 Court St., will award contract latter part month, club. $450,000. Bids in. Bowden & Russell, 19 West 44th St., New York, archts. Noted Jan. 28.

HOSPITALS

PROPOSED WORK

Mass., Fitchburg—Burbank Hospital, C. T. Crocker, chn. Building Comn., soon lets contract brick, steel isolation unit and nurses' home, Nichols Rd. $150,000. J. Purdon, 89 Broad St., Boston, archt. Noted Nov. 5.

N. Y., New York—New York Orthopedic Dispensary & Hospital, 420 East 59th St., plans by York & Sawyer, 100 East 42nd St., general contract altering and constructing hospital addition, $150,000.

BIDS ASKED

N. Y., Dannemora—Mar. 3, by Commissioner Dpt. Correction, State Office Bldg., Albany, structural steel and iron work, miscellaneous metal work, also bar guards at Building F, Dannemora State Hospital; adv. E. N.-R. Feb. 11.

Pa., Danville—Feb. 17, by Commonwealth of Pennsylvania, Harrisburg, 3 story, basement, 50 x 185 ft. clinic and diagnostic building, 2½ story, basement, 50 x 224 ft. ward building, 2½ story, basement, 58 x 140 ft. nurses' home, 2½ story, basement, 24 x 34 ft. cottages, all steel, brick, stone, concrete found., for Danville State Hospital. F. A. Reinhard, Masonic Temple Bldg., Williamsport, archt. Noted Aug. 20.

CONTRACTS AWARDED

N. Y., New York—Dpt. Hospitals, Municipal Bldg., general contract nurses' home addition, to Switsky & Co., 345 Mason Ave., $88,333; heating, to H. Sand, 158 Breeme St., $7,985; plumbing, to P. R. Tully Co., 403 East 105th St., $8,980. Grand total $105,298. Noted Dec. 17.

N. Y., West Haverstraw—Dpt. Health, State Office Bldg., Albany, general contract two 2 story, brick, steel ward buildings, at New York State Reconstruction Home grounds, to DeHamel Constr. Co., Plymouth Bldg., Cleveland, O., $196,000. Noted Dec. 24.

Man., Brandon — Dpt. P. Wks., Parliament Bldgs., Winnipeg, brick, stone additions to mental hospital, general contract, to Fulcher, Epton & Beresford, c/o Owners, $215,266; cut stone, to Tyndall Quarry Co., 1591 Erin Co., Winnipeg; reinforcing steel, to Dominion Bridge Co., 702 Canada Bldg., Winnipeg; elevators and dumbwaiter, to Darling Bros. Ltd., 303 Travellers Bldg., Winnipeg; refrigerators, to Tully Ice Machine Co., 936 Logan Ave., Winnipeg.

CHURCHES

PROPOSED WORK

N. J., East Orange — Central Brick Presbyterian Church, H. E. Nicely, pastor, 113 Woodlawn Ave., new sketches by Mayers, Murray & Phillip, 2 West 47th St., New York, 2 story, basement, brick, steel, Washington St. and Glenwood Ave. $150,000. **Maturity latter part April.** Noted July 16.

N. J., Paterson—Owner, c/o E. R. Coe, archt., 136 Washington St., revised sketches 2 story, basement, brick, steel church. $150,000. Noted Oct. 1.

N. J., Verona—Calvary Evangelical Lutheran Church, G. A. Dering, pastor, Bloomfield Ave., receiving sketches from architects, 2 story, basement, brick, steel church, South Prospect St. $150,000. **Maturity in March.** Architect not appointed. Noted Dec. 17.

N. J., West Orange—Myers & Shanley, archts., 24 Walnut St., Newark, soon lets contract 1 story, basement, brick, steel church, Benvenue Ave., for St. Joseph's Church, c/o Roman Catholic Dioceses Newark, Newark. $150,000. Noted Jan. 7.

BIDS ASKED

N. J., Newark—St. George Greek Catholic Church, 89 Astor St., and S. J. Serocco, archt., 60 Park Pl., taking bids general contract 2 story, basement, brick, steel, rein.-con. church and rectory, Warwick and Lang Sts. $150,000. F. Nagy & Associates, Bethlehem, Pa., assoc. archts. Noted Jan. 14.

SCHOOLS

PROPOSED WORK

Calif., San Gabriel—San Gabriel High School Dist., fireproof high school. Election Feb. 23, $345,000 bonds of which $250,000 will be used to finance same. Marsh, Smith & Powell, 816 West 5th St., Los Angeles, archts. S. Quentin, 429 Edison Bldg., Alhambra, engrs. Noted Jan. 22.

Conn., Bloomfield—Oxford School, C. A. Goodwin, chn. building comn., 695 Prospect Ave., West Hartford, plans by W. F. Brooks & F.D.W. Glazier, Lewis and Gold Sts., Hartford, brick school group, incl. assembly, gymnasium, refectory, grade classroom, upper classroom units, Bloomfield Ave., Cottage Grove Rd. To exceed $150,000. Noted Jan. 7.

D. C., Wash.—Georgetown University, science buildings, incl. laboratories. To exceed $1,000,000.

Ill., Chicago—Bd. Educ., 188 West Randolph St., plans by J. C. Christenson, 188 West Randolph St., high school, 85th St. and Michigan Ave. $2,000,000.

Kan., Lawrence—University of Kansas plans by Hare & Hare, c/o owner, school of medicine group. To exceed $150,000.

Ia., Cedar Falls—Iowa State Bd. Educ., Des Moines, W. H. Gemmill, secy. finance com., retained Proudfoot, Rawson, Souers & Thomas, archts., 810 Hubbell Bldg., Des Moines, to design new dormitory addition for State Teachers College. $200,000. E. E. Cole, supt. building and grounds.

N. J., Fairlawn — Bd. Educ., Boro Hall, sketches by A. E. Sleight, Romaine Bldg., Paterson, 2 story, basement, brick, steel, rein.-con. addition to Roosevelt School. Election Feb. 9, $150,000 bonds for same. Noted Feb. 4.

N. J., Rochelle Park — Bd. Educ., 2 story, basement, brick, steel high school. $150,000. **Maturity indefinite.** Architect not appointed.

N. Y., Industry—Superintendent Div. St ards & Purchase, State Office Bldg., Albany jected bids Dec. 17, enlarging, equipping ice cottage, State Agricultural and Indu School. Noted Dec. 10.

N. Y., New York—Bd. Educ., 500 Park A New York, plans by W. C. Martin, Flatbush A extension and Concord St., Brooklyn, P. S. 4 story, 124 x 200 ft., 509 West 129th $740,000.

BIDS ASKED

N. J., Princeton—C. Z. Klauder, archt., 1 Walnut St., Phila., Pa., bids about Feb. 18, eral contract Joline Dormitory, 2 and 3 st basement, brick, steel, for Princeton Univers E. A. McMillan, supt. $150,000. Noted Feb

N. Y., Garden City—Feb. 26, by Bd. Ed general contract school. $250,000. Starrett & Van Vleck, 393 7th Ave., New York, arch Noted Dec. 10.

Pennsylvania—See "Power and Lighting."

CONTRACTS AWARDED

N. J., Haledon—Bd. Educ., Pub. School, crete sidewalks on school grounds, Barbour St between Cliff St. and Lee Ave., to R. S. Sowerbutt, 150 Highland Ave.; steel posts and wire fence, to J. Collinson Fence Co., 10 North Walnut St., East Orange; wood posts and wire fences, to C. Willimann, 542 W. B. Way; grading, seeding, etc., to Canger Constr. Co., 262 Main St., Paterson. Est. $25,000.

Tex., Austin — Bd. Regents University of Texas, c/o J. W. Calhoun, comptroller **(a)** general contract **(b)** heating **(c)** plumbing **(d)** electric wiring **(1)** 4 story, basement, 134 x [illegible] ft. library **(2)** 4 story, basement, sub-basement 107 x 200 ft. physics building **(3)** 3 story, basement, L-shaped union building **(4)** geology building **(5)** 3 story, basement, 72 x 205 ft. dormitory **(6)** 87 x 148 ft. auditorium **(7)** architecture building **(8)** 4 story home economics building **(9)** engineering building, all brick, stone, hollow tile, concrete, to P. O'B. Montgomery, Construction Industrial Bldg., Dallas, combined bid, **(a1, a2 and a3)** $1,169,740; to Christy-Dolph Constr. Co., Construction Industrial Bldg., Dallas, combined bid **(a4** and **(a5)** $331,400; to Landis & Young, Bloomington, Ind., and Georgetown, Tex. **(a6)** $148,051 to R. E. McKee, 1900 Texas St., El Paso, **(a7)** $227,297 **(a8)** $224,746; to Bellows-McClay Constr. Co., Construction Industrial Bldg., Dallas **(a9)** $268,750; to Young & Pratt, Lubbock, combined bid for **(b1 to 9 inclusive)** $309,500 **(c1)** $20,325; to J. E. Morgan & Son, El Paso **(d1)** $53,623; to S. P. Osborne, 1900 5th Ave., Fort Worth **(c2)** $19,189; to Graham-Collins Electric Co., 801 Main St., San Antonio; combined bid **(d2, d4, d8)** $137,677 combined bid **(d5, d6 and d9)** $47,549; to E. Hudson, San Antonio **(c3)** $18,052; to Eugene Ashe Electric Co., 505 Jones St., Fort Worth **(d3)** $25,500 to D. Vickers, Sweetwater **(c5)** $17,825; to Jud & Ormond, 703 North Flores St., San Antonio, **(c6)** $4,782; to Hill Bros. Co., Waco **(c7)** $10,681 **(c8)** $18,685; to Wright Bros., 1001 Navarro St., San Antonio **(d7)** $18,627 to J. C. Korioth, Sherman **(c9)** $26,200. Grand total $3,098,199. Noted Jan. 7.

Wis., Whitefish Bay — Bd. Educ., terrazzo work for 3 story, 80 x 260 ft. high school, to Wisconsin Mosaic & Tile Co., 2233 North 4th St., Milwaukee, $21,785. Noted June 25.

OFFICES

BIDS ASKED

N. J., Jersey City—Medical Arts Building Co., B. Gorlin, pres., Concourse Bldg., taking bids general contract 4 story, basement, 100 x 160 ft., brick, steel medical building, Hudson Blvd. and Fairmount Ave. $250,000. C. Shilowitz, 26 Journal Sq., archt. Noted Jan. 21, under "Contracts Awarded."

STORES

PROPOSED WORK

Ill., Rockford — W. T. Grant Department Stores, 1441 Bway., New York, Local Manager, 207 West State St., Rockford, 2 story, basement, steel, black granite addition, West State St. $155,000. **Maturity soon.** Private plans.

N. J., Montclair—Owner, c/o W. J. Fitzsimmons, archt., 626 Central Ave., East Orange, rejected bids 3 story, basement, brick, steel store, office, William St. Noted Nov. 26.

N. J., Newark—Owner, c/o F. H. Koenigsberger, archt., 48 Walnut St., sketches 2 story, basement, brick, steel store, office. $150,000.

N. J., New Brunswick—H. G. Bach, archt., 63 Schureman St., rejected bids 1 story, basement, brick, steel store, office, French and New Sts., for J. Lefkowitz, 333 Handy St. $150,000. Plans will be revised for smaller project. Noted Jan. 21.

N. J., Westfield—R. R. Chatfield, Inc., archt., 225 East Broad St., rejected bids general contract 3 story, basement, brick, steel store, apartment, Elm and North Aves., for C. C. Gordon, 437 North Ave. $150,000. May revise plans for smaller project. Noted Oct. 10.

N. Y., Tompkinsville—J. DeFayo, 330 East 139th St., New York, revised plans by D. J. Sirocco, 440 Central Ave., East Orange, N. J., 3 story, basement, 120 x 200 ft., brick, steel apartment, store, Woodstock and Castleton Aves. $200,000. Noted Jan. 28.

Stores (Continued)

BIDS ASKED

N. J., Newark—Siegler & Greenberg, archts., 164 Market St., bids about Feb. 23, general contract 3 story, basement, brick, steel store, apartment, Lyons Ave. and Parkview Terrace, for J. Ruderman, 777 High St. $150,000. Noted Feb. 2.

CONTRACTS AWARDED

N. Y., Brooklyn—Estate of S. Wacht, 565 5th Ave., New York, 4 story, 109 x 120 ft. store, office, to W. Ginsberg, 331 Madison Ave., New York. Est. $150,000. Contractor now taking bids on sub-contracts. Noted Jan. 28.

PUBLIC

PROPOSED WORK

Calif., Van Nuys—CITY HALL—Los Angeles City Constr. Dpt., City Hall, Los Angeles, C. O. Brittain, supt., completing working drawings Los Angeles Branch City Hall, 2 story, basement, 145 x 225 ft., with 150 ft. tower, 48 ft. square, steel, rein.-con., foundation to be supported by 435 concrete piles driven 25 ft. deep, granite steps and buttresses, electric elevator, sprinkler system, steam or electric heating, incl. garage, Sylvan St. and Sylmar Ave. $275,000.

N. J., Linden—RECREATIONAL—Bd. City Council, City Hall, bids in April, 2 story, basement, brick, steel, Wood Ave. $150,000. A. E. Cooley, city engr. Private plans.

N. Y., New York — POLICE PRECINCT — Police Dpt., 240 Centre St., 100 x 125 ft. police precinct buliding, 206-214 East 36th St. To exceed $150,000. Site acquired.

BIDS ASKED

N. J., Madison—COMMUNITY—R. S. Shapter, archt., 382 Springfield Ave., Summit, bids about Feb. 23, general contract 2 story basement, 65x 150 ft., community building with two 2 story, 50x55 ft. wings, Kings Rd. between Green and Maple Sts., for Bd. City Council, 2 Green Village Rd. $150,000 funds donated by Mrs. M. Dodge, c/o archt. Noted Feb. 11.

Tex., Austin—STATE HIGHWAY OFFICE—State Bd. Control, C. Teer, chn., State Hy. Comn., G. Gilchrist, engr., bids about Mar. 15, 8 story, basement, 100 x 127 ft., rein.-con., stone, brick, tile, steel highway and record office building. $500,000. Adams & Adams, 1001 Western Natl. Bank Bldg., San Antonio, archts. Lang & Witchell, 1st Natl. Bank Bldg., Dallas, assoc. archts. W. E. Simpson Co., Milam Bldg., San Antonio, engrs. Noted Oct. 1.

UNCLASSIFIED

PROPOSED WORK

Ill., Chicago—AGRICULTURE and STATE—Century of Progress Administration Bldg., Lief Ericsson Dr., sketches by E. H. Bennett, 80 East Jackson Blvd., 2 story, rein.-con., brick, steel, stone agriculture building, concrete pile found., 12th St. and Lief Ericsson Dr., $300,000; 2 story, basement, irregular sized, steel, timber state building, concrete pile found., Lief Ericsson Dr., $400,000. **Maturity in fall.**

Mo., St. Louis—STATION—Midwest Industrial Development, L. E. Fischer, pres., c/o Illinois Terminal R.R., 231 South LaSalle St., Chicago, Ill., soon takes bids superstructure 11 story, basement, 122 x 137 ft., rein.-con., brick, steel passenger station, office, 12th St. and Washington Ave. $750,000. Mauran, Russell & Crowell, 1620 Chemical Bldg., archts. Noted Sept. 3.

N. J., Passaic—HOME—Polish Peoples Home, 1 Monroe St., altering and constructing 2 story, basement, brick, steel addition. $150,000. **Maturity soon.**

N. Y., Richmond Hill—HOME—Queensboro Workers For and With the Blind, D. Lang, pres., and Queensboro Home for the Blind, Inc., 115-12 95th Ave., home for blind, 115th St. and 95th Ave. $300,000.

O., Cincinnati—COMMUNITY—United Jewish Social Agencies, 15th and Plum Sts., Jewish Community building in Avondale. $300,000. **Maturity in summer.** Architect not appointed.

Okla., Oklahoma City—STATION—H. W. Wagner, ch. engr. (eastern lines) Atchison, Topeka & Santa Fe R.R. Co., Topeka, Kan., soon takes bids 1 and 2 story, basement, 74 x 242 ft., steel, stone main building, 1 story, basement, 66 x 138 ft. express, baggage and mail section, California and Santa Fe Aves. E. A. Harrison, 80 East Jackson Blvd., Chicago, Ill, owners archt. Noted Dec. 3.

Industrial Buildings

FACTORIES AND MILLS

PROPOSED WORK

Calif., Ryde—CANNING PLANT—Libby, McNeil & Libby, Union Stock Yards, Chicago, Ill., soon lets contract and purchases equipment for reconstructing part asparagus canning plant, destroyed by fire. To exceed $100,000.

Kan., El Dorado—GAS PLANT—See "Power and Lighting."

Neb., Omaha—MEAT PACKING PLANT—Cudahy Packing Co., 1321 Jones St., altering and re-equipping plant. $250,000.

Neb., Omaha—MILLING PLANT—Nebraska Consolidated Mills Co., 1521 North 16th St., soon lets general contract 53 x 86 ft.,rein.-con., brick, 100 ft. high. Horner & Wyatt, 468 Bd. Trade Bldg., Kansas City, Mo., engrs.

Neb., Omaha—MEAT PACKING PLANT—Swift & Co., 27th and Q Sts., Omaha, Neb., and Packer and Exchange Aves., U. S. Yards, Chicago, Ill., alterations and re-equipment meat packing plant. $250,000.

N. Y., Brooklyn—PLANT—Maxwell Corp., 140 13th St., sketches by Scott & Prescott, 34 East 23rd St., New York, 1 story addition, 13th St. and East 2nd Ave. To exceed $40,000.

N. Y., New York—ROTOGRAVURE PRINT$..G and PAPER STORAGE—New York Times, Times Square, 220 x 225 ft. rotogravure printing and paper storage plant, 10th Ave. from 44th to 45th Sts. To exceed $40,000. **Maturity indefinite.** Site acquired.

N. Y., New York—PLANT—Payson Varnish Co. plans by A. Pirner, 2742 East Tremont Ave., 1 story, 49 x 95 ft. plant, 141st St. and Southern Blvd. $40,000.

Tex., La Porte—OIL REFINERY—La Porte Oil & Refining Co., Inc., c/o J. D. Wrather, et al., La Porte, Tex., and Gurley Oil Co., plan oil refinery plant, 2,500 bbl. d.c. $100,000. Have site under option about 1½ mi. from city limits. Plan to let contracts and start construction some time this month. Private plans.

Tex., San Angelo — CREAMERY PLANT — Colby Creamery, c/o R. O. Colby, San Angelo, sketches brick, rein.-con. modern plant, plain found. Private plans.

Ont., Kitchener—PLANT—Dumart Packing Co., Guelph St., plans by J. C. Klaehn, 129 King St. W., 3 story, brick, steel addition. $50,000.

Ont., Port Colborne — PLANT — Highland Scotch Distilleries, J. B. Disher, mgr., plans by J. C. Buchert, c/o Assonia Copper & Iron Wks., Assonia, O., improvements, addition to plant, incl. additional story to existing plant, new boiler house, rack warehouse, installation new equipment.

BIDS ASKED

La., Harvey—FACTORY—Feb. 16, by Favrot & Livaudias, archts., Hibernia Bldg., New Orleans, 3 story, rein.-con., steel, pile and rein.-con. found., for Continental Can Co., Pershing Square, New York. $125,000. Noted Jan. 21.

Mo., Chillicothe—See "Contracts Awarded."

N. J., Highland Park — FACTORY — H. G. Bach, archt., 63 Schureman St., New Brunswick, bids about Mar. 1, general contract 2 story, basement, brick, steel addition, for Owner, c/o architect. $40,000. Noted Jan. 21.

Tex., El Paso—CREAMERY PLANT—G. L. Frazer, archt., El Paso, bids about Feb. 15, 1 story, basement, 92½ x 120 ft., brick, Myrtle Ave., for Mistletoe Creameries, Inc., W. N. Fraley, genl. mgr. Est. $80,000.

CONTRACTS AWARDED

Ill., Chicago—LAUNDRY and BOILER HOUSE—State of Illinois, Dpt. Purchases & Constr., Capitol Bldg., Springfield, general contract 3 story, basement, stone, terra cotta, Sandamon and Adams Sts., to Schmidt Bros., 22 East Huron St., chimney, to Continental Chimney Co., 127 North Dearborn St., mechanical work, to L. E. Snider Eng. Service, Inc., 605 North Michigan Ave. Est., $150,000.

Ind., Hammond—FACTORY—Lever Bros. Co., Cambridge, Mass., plant addition, Indianapolis Blvd., to Stone & Webster Eng. Corp., 48 Federal St., Boston, Mass., and 33 South Clark St., Chicago, Ill. Est., $100,000. Noted Nov. 12.

Mo., Chillicothe — ICE and COLD STORAGE PLANT—Consumers Pub. Serv. Co., P. Parkham, pres., Brookfield, 1 story, basement, 100 x 125 ft., rein.-con., brick, day labor. $55,000.

Mo., St. Louis—MILK PLANT—Donnell Milk Co., 816 South Taylor Ave., 2 story, 32 x 59 ft., brick, concrete milk plant addition, to Baerveldt & Honig Constr. Co., 624 Wainwright Bldg.

Mo., St. Louis—FACTORY—Kinloch Brass Casting Co., 2356 Palm St., general contract 1 story, 59 x 70 ft. concrete, brick, 2110 Howard St., to C. L. Williams Realty Co., 518 South Vandeventer St.

N. Y., Long Island City—LAUNDRY—Knickerbocker Laundries Co., G. Lange, general contract 2 story, 200 x 246 ft. laundry, to G. A. Glass, Inc., Grand Central Terminal, New York. Est. $40,000. Contractor now taking bids on separate contracts. Noted Dec. 10.

Wis., Madison—PACKING PLANT — Oscar Mayer & Co., general contract 1 story, 56 x 90 ft. brick, steel top addition, Wilson Ave., to C. B. Fritz, 138 North Frances Ave. Est. $40,000. Contractor taking bids on sub-contracts.

Ont., Amherstburg—OIL REFINERY—W. F. Simrall Refining Corp., 814 Union Central Bldg., Cincinnati, O., R. P. Crothers, ch. engr., refinery, cracking units, to Foster Pheeler Co., Canadian Pacific Ry. Bldg., Toronto, $200,000. Noted Nov. 26.

GARAGES

PROPOSED WORK

Ga., Atlanta—City, c/o C. E. Kauffman, city engr., sketches 2 story, rein.-con. garage, 250 car capacity, Hunter and King Sts. S. E.

Mass., Fall River—B. M. Durfee Co., 80 North St., brick, superservice station, tires, etc., Bedford and Rock Sts. $40,000. Private plans. Goodyear Tire & Rubber Co., 1144 East Market St., Akron, O., lessee. Noted Jan. 14.

N. Y., Brooklyn—S. F. Oppenheim, Inc., 26 Court St., sketches by B. Greenberg, 4902 Foster Ave., 1 story, 95 x 150 ft. service garage, Malt St., Hegeman and Louisiana Aves. $40,000.

N. Y., Glendale—See "Contracts Awarded."

BIDS ASKED

N. J., Somerville—Owner, c/o P. C. Van Nuys, archt., 1 West Main St., bids about Mar. 10, general contract 2 story, basement, 100 x 200 ft. brick, steel garage, store, for Owner, c/o architect. Noted Oct. 8.

CONTRACTS AWARDED

Calif., San Diego—Pacific Telegraph & Telephone Co., 9th and C Sts., 100 x 200 ft. rein.-con. garage with 50 x 100 ft. L, 8th and G Sts., to W. E. Kier Constr. Co., First Natl. Bldg., $40,000.

N. Y., Brooklyn—Brooklyn & Queens Trnasit Corp., 385 Flatbush Ave. extension, purchasing materials, incl. metal building which will be erected by day labor, Commercial St. and Manhattan Ave. Noted Jan. 7.

N. Y., Glendale — Cypress Homes Co., 582 Jamaica Ave., Brooklyn, service garage, Rockaway Blvd. and West 75th St., separate contracts. **Maturity indefinite.** J. Baker, 9 Jackson Ave., archt.

SHOPS AND FOUNDRIES

PROPOSED WORK

N. Y., Brooklyn—SHOP—G. G. and W. F. Pengel, 600 Coney Island Ave., plans by Seelig & Finkelstein, 153 Pierrepont Ave., shop and garage addition. **Maturity in June or later.** Delayed pending grant of building permit.

CONTRACTS AWARDED

Ore., Bend—MACHINE SHOP and ENGINE HOUSE—Great Northern Ry. Co., St. Paul, Minn., J. R. W. Davis, ch. engr., engine house and machine shop, to A. Guthrie & Co., Inc., Sherlock Bldg., Portland, $50,000.

POWER PLANTS

PROPOSED WORK

Colo., Colorado Springs—City Council, expending $200,000 this year enlarging municipal steam plant, extending building, installing steam turbine and boiler capacity equal to that now in use.

La., Grand Junction—Citizens voted to build municipal light and power plant. $85,000. J. H. Watts, city clk. Noted Dec. 17.

Utah, Washington—Dixie Products, Inc., St. George, cold storage, ice and poultry dressing plant. $40,000. Architect not appointed.

BIDS ASKED

Mo., Kansas City—See "Contracts Awarded."

CONTRACTS AWARDED

Mo., Kansas City — Kansas City Power & Light Co., 14th St. and Baltimore Ave., 1 story, 72 x 180 ft. concrete, brick, power sub-station, 3410 Nicholson Ave., day labor. $40,000.

WAREHOUSES

PROPOSED WORK

Ill., Chicago—State of Illinois, Capitol Bldg., Springfield, Atchison, Topeka & Santa Fe R.R. Co., 80 East Jackson Blvd., Chicago, G. W. Harris, ch. engr., and Illinois Central R.R. Co., 135 11th Pl., A. F. Blaess, ch. engr., terminal warehouse on 21 acre site near junction main sanitary and ship canal and Chicago River at South Damen Ave., for Illinois Waterway. $200,000.

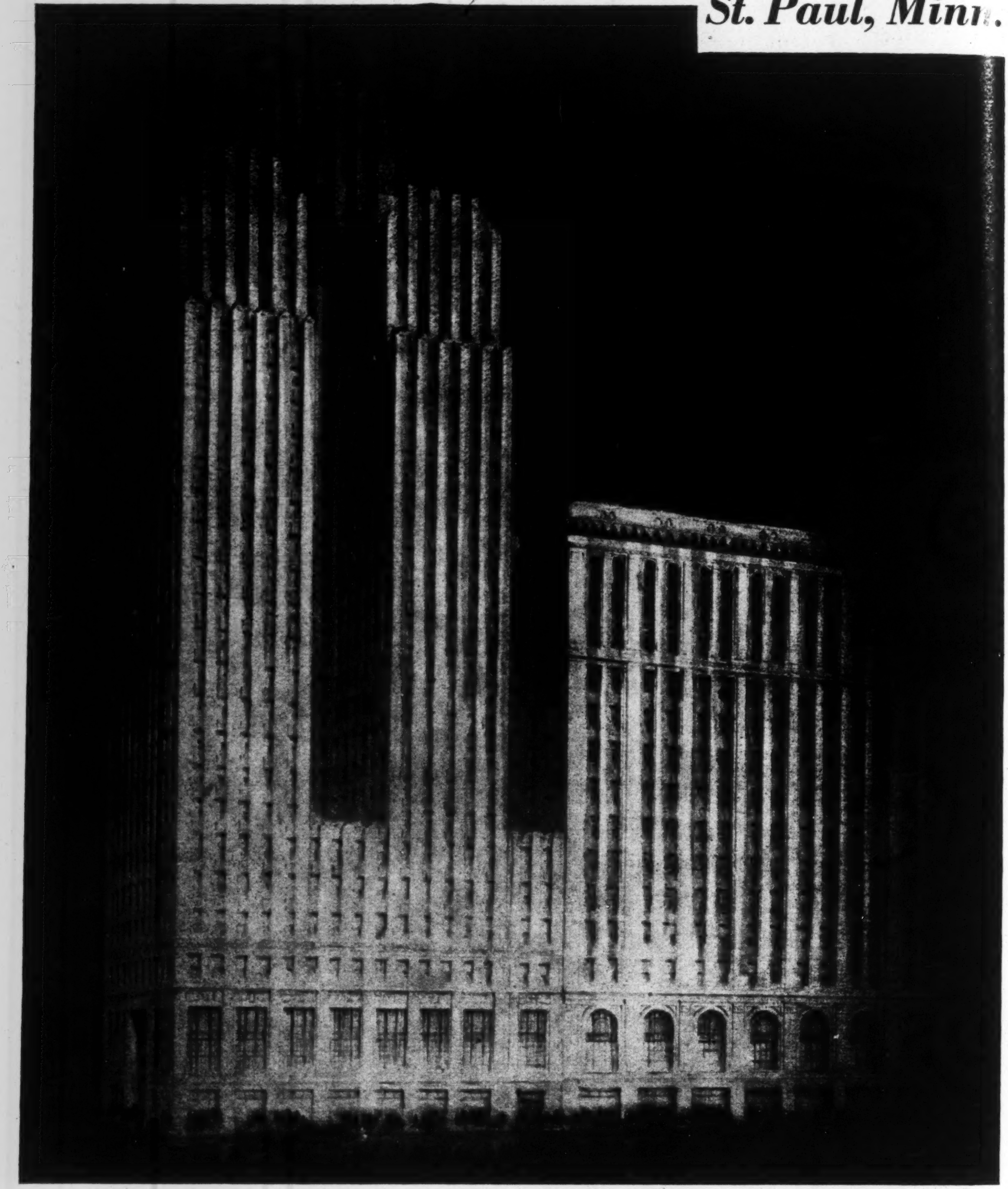
B. C., Vancouver—Vancouver Harbor Comr., foot of Dunlevy Ave., cool room for storage of 100,000 boxes of apples, incl. cooling equipment, mechanical devices for handling boxes of apples from cars to cool room and cool room to ships' holds, at one of piers. $50,000. H. W. Frith, c/o Harbor Comn., engr.

BIDS ASKED

N. Y., New York — S. Roth, archt., 1182 Bway., bids about Feb. 15 (selected list of bidders), general contract altering stockrooms, storage and service garage, 56 East 115th St., for M. S. and R. Rosenfeld, 56 East 115th St. $50,000. Noted Jan. 28.

See proposal advertising on page 61

Addition to First National Bank Building, *St. Paul, Minn.*



Architects: Graham, Anderson, Probst and White. General Contractor: Paul Steenberg Construction Company. The original building occupies the right-hand portion of the above illustration; the taller structure, at the left, is the addition.

Framework of BETHLEHEM *WIDE-FLANGE* Structural Shapes

Bethlehem Steel Company, ***General Offices:*** **Bethlehem, Pa.**

District Offices: New York, Boston, Philadelphia, Baltimore, Washington, Atlanta, Pittsburgh, Buffalo, Cleveland, Cincinnati, Detroit, Chicago, St. Louis, Houston, Dallas

Pacific Coast Distributor: Pacific Coast Steel Corporation, San Francisco, Los Angeles, Portland, Seattle, Honolulu

Export Distributor: Bethlehem Steel Export Corporation, 25 Broadway, New York City

CONSTRUCTION NEWS

SECTION OF ENGINEERING NEWS-RECORD—FEBRUARY 18, 1932

WATERWORKS

PROPOSED WORK

Ill., Decatur—Water Supply Co., R. I. Hunt, pres., 207 New Suffern Bldg., remodeling plant, purchasing new equipment. $265,000. G. X. Chuse, Citizens Bank Bldg., engr.

Ill., River Forest — Village waterworks improvements, incl. installation larger mains in several streets. $200,000. **Maturity 1933.** L. L. Harper, 7727 Lake St., engr.

Ind., Michigan City—Bd. Waterworks issued bonds for new reserve pump, construction new mains. $30,000. Address City Clerk. This corrects report in Jan. 7 issue under "Michigan, Ind."

Ia., Ottumwa — Bd. Trustees, new settling basin and filter plant. $100,000. H. A. Brown, City Hall, supt. Water Works has plans and estimates. **Maturity this year.**

Ia., Shenandoah — City Council installing aeration and filtration system. $15,000 or more. Allen & Vagtborg, Inc., 205 West Wacker Dr., Chicago, Ill., engrs.

Kan., Larned—Preliminary plans improving municipal waterworks, incl. 2 deep wells, pumps, main extension. **Maturity indefinite.** C. A. Haskins, 824 Finance Bldg., Kansas City, Mo., engr.

Mass., Arlington—Town, standpipe. $15,000—$20,000. Site undecided.

Mass., Deerfield — Town, concrete reservoir. $15,000. A. Ball, chn. Bd. Water Comrs.

Mass., Manchester — Town, Bd. Selectmen, waterworks and sewer construction. $28,500 appropriated.

Mass., Uxbridge—Town, Bd. Selectmen, waterworks improvements. $15,800 appropriated.

N. J., Trenton—Comrs. Belmar Boro, expending $12,000 new mains, pumps for waterworks.

N. Y., New York—Dpt. Water Supply, Gas & Electricity, Municipal Bldg., repairing mains in West 205th St., Bronx Boro. $60,000. Awaiting funds to proceed.

Pa., Jeannette—See "Dams."

Wash., Kittitas—City, improving waterworks, incl. 100,000 gal. steel storage reservoir on 100 ft. steel tower; laying 4,000 ft. 6 in. and 6,400 ft. 4 in. mains; drilling 12 in. well, with steel casing pipe; purchasing, installing one 250 g.p.m. or less motor driven well turbine pump; one 250 g.p.m. motor driven centrifugal booster pump. Work contingent upon election to be held Feb. 15. J. R. Bannon, city engr.

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Wis., Campbellsport—City, A. W. Guenther, clk., preparing plans complete waterworks, with equipment. $15,000. P. L. Clark, 207 College Ave., Appleton, engr.

Wis., Cedar Grove—City, L. J. Meylente, clk., preparing plans waterwork. $20,000. A. E. McMahan Eng. Co., Menasha, engrs.

Wis., Oconto — City plans reconstruction waterworks plant to be acquired to include concrete found. for Diesel engine, installation 2 pumps. $200,000 bond issue to be floated as soon as bonds are marketable to purchase plant owned by private company. Gordon & Bulot, 53 West Jackson Blvd., Chicago, Ill., engrs. Noted Nov. 13.

Ont., Ottawa—City Council 6 in. and larger c.i. additional mains, valves, hydrants, trenching. $50,000. F. C. Askwith, City Hall, engr.

Que., Montreal—By-law adopted water main construction. $600,000.

BIDS ASKED

Ind., Garrett—Feb. 23, by City, rein.-con., brick, steel, stone addition to municipal waterworks and light plant. $40,000. Equipment desired. A. M. Strauss, 415 Cal-Wayne Bldg., Ft. Wayne, engr.

Ind., Martinsville—See "Contracts Awarded."

Minn., St. Paul—Feb. 23, by C. A. Carlson, city purch. agt., brass curb and corporation cocks for Water Dpt., c.i. gate valves and service connections. W. N. Carey, city engr.

O., East Cleveland—Mar. 1, by City, C. A. Carran, mgr., erecting 1 m.g. steel water (standpipe) tank. M. Garnett, City Hall, engr. Noted Dec. 3.

Pa., Torrance — Mar. 2, by Torrance State Hospital, C. R. McKinnis, supt., test holes for impounding dam, drawing plans for remainder of project. State appropriated $515,000 for same. J. N. Chester Engineers, Clark Bldg., Pittsburgh, engrs.

Okla., Tulsa—See "Contracts Awarded."

Wash., Tacoma—See "Contracts Awarded."

CONTRACTS AWARDED

Ind., Martinsville—City, 1.5 blocks 12 in., 3 blocks 10 in., 1 block 8 in., 10 blocks 6 in. new mains, day labor. $15,000.

Minn., Minneapolis—F. S. Gram, city purch. agt., 33,471 ft. 32- to 44-in. steel lock-bar pipe, laid in trench, between France and 18th Aves. S., mainly in 40th and 43rd Sts., to East Jersey Pipe Co., 7 Dey St., New York, $202,392. Noted Jan. 7.

Neb., Lincoln—For 16 in. mains in P St. from 25th to 14th Sts. and 25th St., from P to O Sts., to G. Vlasnik, 1721 South 22nd St., $25,493.

Okla., Tulsa—City Council, 750 m.g. reservoir, day labor. Est. $30,000. H. A. Parker, city engr. Noted Dec. 31.

Utah, Salt Lake City—City Comn. reawarded contracts for watermain in 5th St., S., to J. J. Burke & Co., Kearns Bldg., $49,950; 27th St. S., equalizing reservoir, to H. E. Schraven, Boston Bldg., $52,190; North Branch equalizing reservoir, to Clyde & Whiting, Springville, $31,473. Grand total $133,613. Above contracts previously awarded under specifications calling for hand labor. Supreme court held contracts illegal. Some half completed. Projects were readvertised and awarded to same contractors at approximately same figures. Noted Oct. 22 and 29 and Dec. 3.

Wash., Tacoma—City, Hood Street Pumping Station, appurtenant structures, connecting pipe lines, day labor. $116,136. W. A. Kunigh, Water Dpt., engr. Noted Feb. 2.

SEWERS

PROPOSED WORK

Ark., Pine Bluff — City Council preliminary plans repairing and extending sewerage system, new sewage disposal plant, pumps. $125,000. C. Wright, City Hall, engr.

Ill., Grays Lake — Village preliminary plans sewage disposal plant. $30,000. H. Studer, village engr.

Ill., Macomb — Bd. Local Impvts. activated sludge type sewage disposal plant, $80,000. Kinsey Eng. Co., Marshall Blk., Pekin, to design same. Noted Mar. 20, 1930.

Kan., Garden City—Preliminary plans sewage disposal plant. J. F. Crocker, city clk.

Kan., Hutchinson—Preliminary plans 42 in. main and sub-mains in South Industrial Dist., $35,000; also Madison Street Storm Sewer Dist., incl. territory south and west of Cow Creek below Sherman to Avenue B and between Monroe and Jefferson. A. W. Hefling, Hutchinson, engr.

Mass., Manchester—See "Waterworks."

Mo., Columbia—City returned bids to contractors unopened for sewer from intersection Rollins and Hitt Sts. west past Brewer Field House, southwest across Missouri University grounds to west end of concrete stand in Rollins Field, thence west to main sewer west of Maryland Ave. W. B. Cauthorn, city engr.

Mo., St. Louis—Soon takes bids Rosedale Ave. Public Sewer to connect Des Peres near western city limits, $55,000; Manchester Ave. Public Relief Sewer to connect with River Des Peres project near Sublette Ave., $45,000; reconstruct-

Some of the Week's Large Projects

For further details turn to appropriate sections in this issue

Location	*Project*	*Cost*	*Status*
Sewers			
Winnipeg (Man.)	Sewer	$1,700,000	Proposed
Bridges			
Quebec City	Bridges	3,000,000	Proposed
Streets and Roads			
Milwaukee	Paving	1,500,000	Proposed
Railways			
Kentucky	Truck work	3,000,000	Proposed
Sports and Parks			
Atlantic City	Beach resort, etc	1,000,000	Proposed
Federal Government			
Cincinnati	Post office	3,000,000	Proposed
Pittsburgh	Locks	3,000,000	Proposed
Factories and Mills			
Toronto (Ont.)	Plant	1,500,000	Proposed
Buildings			
Chicago	Apartment	1,400,000	Contract
New York	Residential development	1,000,000	Separate contracts
New York	Apartment hotel	4,000,000	Proposed
White Plains	Residential development	1,000,000	Proposed
California	Hospital	1,440,000	Proposed
Jersey City	Hall of Records	2,000,000	Proposed
New York	Museum	1,000,000	Proposed
Cambridge (Mass.)	High school	1,500,000	Contract
Jersey City	High school	2,000,000	Proposed
Sioux City (Ia.)	Station	1,000,000	Proposed

See proposal advertising on page 62

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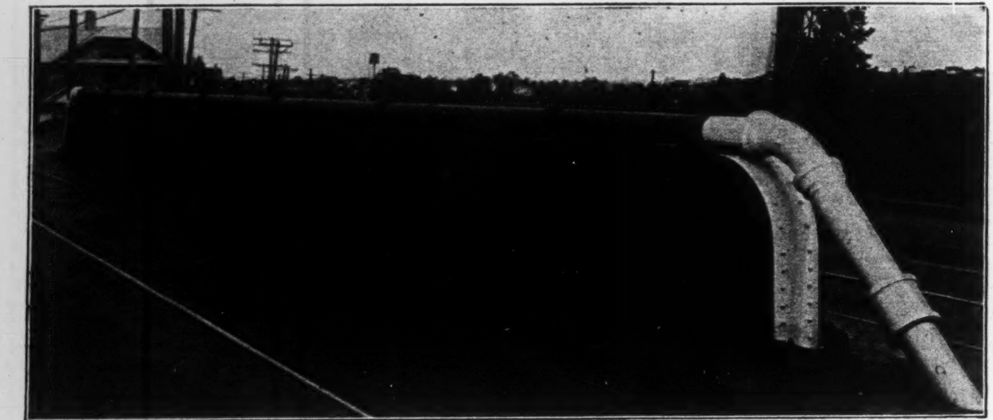

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No Caulking

Sewers (Continued)

ing, repairing Barton St. Sewer, $12,951; Quincy St. Sewer; $3,787. W. W. Horner, city engr. Noted Dec. 10.

N. Y., Mount Vernon—City, 3,000 ft. 60- to 84- in. concrete pipe, tunnelling under New York, New Haven & Hartford tracks. $250,000. C. M. Hick, city engr.

Ohio—Dpt. Hys., Columbus. O. W. Merrell, dir. sewer, tile, and ditch work, along hys. in Stark and Summit Counties, incl. laying sewer along State Route 18, between Akron and Talmadge; tiling and ditching 2.6 mi. along State Route 8; sewer along U. S. Route 30, Stark Co., $35,000. Total est. $125,000. This work is preliminary to paving in spring.

Pa., Pittsburgh—Shaler and Ross Twps., Millvale and West View Boros awaiting approval of State Dpt., for Gerties Run Sewer 6 mi. long to take care of 4 municipalities, starting at West View Boro and ending at Allegheny River in Millvale, if approved will take bids in March for same. $220,000. F. G. Ross, 309 4th Ave., Pittsburgh, engr. Shaler Twp., H. P. McKown, Princeton Ave., West View, engr. West View Twp., McCully Eng. Co., Berger Bldg., Pittsburgh, engr. Ross Twp., S. H. Burns, 215 Williams St., Millvale, engr. Millvale Boro.

Man., Winnipeg—City, completion of Jefferson Ave. Sewer and 1 sewer in Ward 2, as relief project. $1,700,000. **Maturity indefinite.** W. P. Brereton, city engr.

Ont., Hamilton—City, 3 to 4 mi. 9 in. and up vitr. tile sewers in West Hamilton Area. $85,000. W. L. McFaul, City Hall, engr.

BIDS ASKED

Ill., Chicago—Mar. 3 (extended date), by J. J. Sullivan, clk. Sanitary Dist. of Chicago, 910 South Michigan Ave., West Side Sewage Treatment Works, Div. D.D.; adv. E. N.-R. Feb. 18. Noted Dec. 31.

N. Y., Brentwood—Mar. 2, at office Dpt. Mental Hygiene, State Office Bldg., Albany, sewers and water lines at Pilgrim State Hospital. F. W. Parsons, comr.; adv. E. N.-R. Feb. 18.

N. Y., Central Islip—Feb. 24, at office Dpt. Mental Hygiene, State Office Bldg., Albany, sewers and waterlines at Central Islip State Hospital, Assembly Hall. F. W. Parsons, comr.; adv. E. N.-R. Feb. 18.

N. Y., Thiells — Feb. 24, by Dpt. Mental Hygiene, State Office Bldg., Albany, sewers and water lines, Farm Colony Building, Letchworth Village. F. W. Parsons, comr.; adv. E. N.-R. Feb. 18.

Utah, Salt Lake City—Feb. 24, by City Comrs., 23,800 ft. 24- to 45-in. concrete tile sewer East Side Unit Storm Sewer, $130,000; 10,300 ft. 60- to 75 in. monolithic construction and concrete sewer in West Side Unit, Storm Sewer, $125,000. H. Jessen, city engr.

Ont., Niagara Falls—See "Contracts Awarded."

CONTRACTS AWARDED

Md., Baltimore—Bd. Awards, storm drains in Sewer Dist. J-7 and G-9 as specified in Storm Water Contr. 173, to W. H. Thompson Contg. Co., Relay, $16,424. Noted Jan. 28.

N. Y., Long Island City—G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., sewers in 63rd Dr. and 114th Ave., to P. Tomasetti Contg. Co., 1074 60th St., Brooklyn, $90,437 and $4,684 respectively; in Alderton St., to J. H. Johnson, 37 Britton Ave., Elmhurst, $2,662; 196th St., to A. Capasso, 4121 Gunther Ave., New York, $3,860; 206th St., to Trifoglio Constr. Co., 105 Monroe Ave., Tompkinsville, $4,536; 113th Ave., to Clemente Soverio, 157 Ashford St., Brooklyn, 113th Ave., $964; 173rd St., to Belfatto Constr. Co., Foch Blvd., South Ozone Park, $1,280; 218th St., to Franzese & Catapano, 289 Logan St., Brooklyn, $2,960; Jamaica Ave., to Flushing Contg. & Eng. Co., 66 Wyoming Ave., Forest Hills, $16,067; Beach 108th St., to Mannino & Pittari, 283 86th St., Brooklyn, $48,595. Grand total $176,054. Noted Jan. 21.

Tex., Dallas—City, c/o E. Goforth, secy., storm sewer, Mill Creek Diversion to Turtle Creek, running from outlet into Turtle Creek, just south of Blackburn St. to intake lot 12 of Cole Tract, to J. Lee and E. A. Vilbig, 2517 Eakin St., $91,579. Noted Jan. 7.

Utah, Salt Lake City—City Comrs. reawarded contracts for storm sewer unit on 13th St., E., to J. J. Burke & Co., Kearns Bldg., $23,984; 13th St. S. storm sewer unit, to P. Paulsen, Vermont Bldg., $79,864. Above contracts previously awarded under specifications calling for hand labor. Supreme court held contracts illegal. Some half completed. Projects were readvertised and awarded to same contractors at approximately same figures. Noted Nov. 19 and Dec. 3.

Wash., Tacoma—City Council, installing manholes, sewer pipe, by day labor. Bids Feb. 13. 14,975 ft. 8- to 24-in. concrete pipe. $16,000. Total est. $50,000. C. E. Putnam, City Hall, engr.

Wis., Milwaukee—Sewerage Comn., 1 story, basement, 45 x 135 ft. incinerator, Jones Island, to T. Stark & Sons, 2312 West Wisconsin Ave., $58,339; chimney for incinerator, to Alphons-Custodis Co., 140 South Dearborn St., Chicago, Ill., $5,050. Noted Dec. 24, under "Waste Disposal."

Ont., Dundas—Town, 1,532 ft. 12- to 24-in. concrete storm sewers in Market St., to E. P. Muntz, Temple Bldg., Toronto. Est. $25,000. Pipe will be purchased locally by owners.

Ont., Niagara Falls—City, 8 in. and up vitr. tile sewers in Huron St., day labor. $73,000. W. S. Orr, City Hall, engr. Owner will purchase necessary pipe.

Ont., Ottawa—City, 1,800 ft. storm sewer from Slater St. to Ottawa River, to Geo. Mills & Sons Ltd., 2 York St., Montreal, Que., $135,000; 2,700 ft. storm sewer from Lewis St. to Slater St. on Rideau Canal Bank, to W. R. Worthington Constr. Co., Roselawn, Toronto. $133,740. Noted Jan. 28.

WASTE DISPOSAL

CONTRACTS AWARDED

Ont., Ottawa—City Council, incinerator, to F. Hankin & Co., Ltd., 2028 Union St., Montreal, Que., $48,421. Noted Aug. 20.

BRIDGES

PROPOSED WORK

Ariz., Prescott — State Hy. Dpt., Phoenix, bridge over Verde River. $65,000. T. S. O'Connell, state hy. engr.

Kansas—State Hy. Comn., McPherson, postponed taking bids to have been opened Feb. 26, two 10 x 15 x 32 ft. multiple box span bridge, U. S. Hy. 77, Federal Aid Project 240-D, Marion Co. W. V. Buck, Topeka, hy. engr.

Neb., Lincoln—Lancaster Co., J. B. Morgan, clk., preliminary plans 3 steel, concrete bridges across Salt Creek, 27th and O Sts., and at 40th and O Sts. $60,000. A. H. Edgren, Court House, co. engr.

New Jersey—State Hy. Comn., Trenton, rejected bids Feb. 1, 2 bridges over N. Y. S. & W. R.R., Route 2, Sect. 6, Bergen Co. No money available. Noted Jan. 14.

Pa., Morrisville—State Hy. Dpt., Harrisburg, replacing 6 bridges with modern structures in Bucks Co. S. S. Lewis, hy. secy.

Utah—State Hy. Comn., Salt Lake City, preliminary plans rein.-con., viaduct over Delaware & Rio Grande R.R., on Spanish Fork Canyon Hy., Utah Co. $120,000. H. S. Kerr, state rd. engr.

Que., Quebec City—Provincial Govt., Dpt. P. Wks., bids this month, bridges, Ville Lasalle to Caughnauga, $3,000,000; Grand Mere, $449,000. J. N. Francoeur, minister P. Wks.

BIDS ASKED

Florida—Feb. 25 (extended date), by State Road Dpt., Tallahassee, 3,090 ft. bridge over Shoal River, Rd. 54, Project 819-B, Oskaloosa Co., alternate on Type 1, one hundred twenty-two 25 ft. steel I-beam spans and one 40 ft. channel span, concrete deck on creosoted pile bents or Type 2, one hundred sixty-nine 18 ft. timber spans and one 40 ft. I-beam channel span, timber floor on creosoted pile bents. Noted Jan. 28.

Ia., Knoxville—See "Streets and Roads."

Kansas—Feb. 24, by State Hy. Comn., La Crosse, **(K.P. means Kansas Project and F.A.P. Federal Aid Project)** Bridge 1, five 9 x 7 x 53 ft. multiple box spans U. S. Hy. 50-N, F.A.P. 295-A—Bridge 1, three 7 x 5 x 30 ft. multiple box spans, K.P. 1, F.A.P. 443-A—Bridge 2, three 8 x 8 x 30 ft. multiple box spans, K.P. 1, F.A.P. 443-A—Bridge 3, three 7 x 5 x 30 ft. multiple box spans, K.P. 1, F.A.P. 443-A, all Pawnee Co.—Bridge 1, two 14 x 14 x 30 ft. multiple box spans—Bridge 2, seven 45 ft. deck girder spans, 24 ft. roadway—Bridge 3, ten 8 x 8 x 30 ft. multiple box spans, all K.P. 1, F.A.P. 443-B, Rush Co. W. V. Buck, hy. engr.

Maryland—Feb. 23, by State Roads Comn. Baltimore, G. C. Uhl, chn., timber bridge, Contr. Ch-92-811, Charles Co.; adv. E. N.-R. Feb. 18.

Michigan — Feb. 23, by H. G. Oakes, div. engr., Plymouth, R. Br. 1 of 23-16-20, Contrs. 2 and 3, three 60 ft. span steel deck girder with 2 counterfort type concrete abutments, 30 ft. roadway, two 5 ft. sidewalks over Grand River, Eaton Co., for State Hy. Comn., Lansing.

Michigan—Feb. 25, by H. W. Hagaman, div. engr., Saginaw, M. Br. 1 of 79-7-4, Contrs. 2 and 3, one 75 ft. span steel deck girder, with 2 semi-gravity type concrete abutments, 30 ft. roadway, two 2.5 ft. sidewalks over Cass River Tuscola Co., for State Hy. Comn., Lansing.

Oklahoma—See "Streets and Roads."

Pennsylvania—See "Streets and Roads."

Texas—Feb. 29, by G. Gilchrist, state hy. engr., Austin, steel, concrete bridge over Live Oak Creek, Hy. 27, State Aid Project 619-G, Crockett Co., $50,000; bridge over Pecos River, Hy. 27, Federal Aid Project 619-F, Crockett and Pecos Counties, $80,000.

Texas—Mar. 1, by G. Gilchrist, state hy. engr., Austin concrete deck girder bridge over Alemito Creek, Hy. 3, State Aid Project 862-A, Presidio Co., $30,000, J. G. Lott, Marfa, resident engr.—4 concrete, steel bridges, Hy. 154, State Aid Project 950-E, Delta Co., $30,000; 600 ft. steel and concrete bridge over Pecos River, Hy. 99, State Aid Project 903-C, Crockett and Pecos Counties, $25,000. P. H. Caldwell, Jr., Fort Stockton, resident engr. O. W. Grafa, Sulphur Springs, resident engr.

Virginia—Mar. 1, by State Hy. Dpt., Richmond, bridges, Projects B3, B4 and B5, on Route 12, Grayson Co.; adv. E. N.-R. Feb. 18.

CONTRACTS AWARDED

Massachusetts — Commonwealth of Massachusetts, Dpt. P. Wks., State House, Boston, A. W. Dean, engr., 273 ft. through truss span and two 49 ft. stringer approach span bridge over Westfield River, Westfield, to Boston Bridge Wks., Inc., Binney St., Cambridge, $83,734. Noted Jan. 21.

Missouri—State Hy Dpt., Jefferson City, to Chaney & Amyx, Branson bridges over Turnbo Creek, Webster Co. $1,709—to M. Wunderlich, Jefferson City, over Bunker Creek, $2,177; over Dry Fork, $23,575; over Strauss Hollow, $1,874; over Hires Creek, $9,935, all foregoing Dent Co.; over Lenox Branch, $4,484; over Little Dry Fork, $8,825; over Peters Branch, $2,634; over Branch, $1,083; over Love Branch Sts. 21 + 54 $3,267; over Love Branch, Sta. 125 + 95 $4,990, all foregoing in Phelps Co.; over Dry Wash, $1,527; over branch, $1,795, both Howell Co. Grand total $67,880. Awarded Feb. 9.

Missouri—State Hy. Dpt., Jefferson City, to A W. Mosley, Kansas City, bridges on Long Branch, $3,699; over Fort Creek, $1,177; over overflow Long Branch, $3,150; over old channel, Nodaway River, $3,817; over Moss Branch, $9,299, all foregoing Nodaway Co.—to Gaines Bros. Co., Jefferson City, over West Locust Creek, $13,722; over Dry Branch, $2,175; over Muddy Creek, $5,386; over Long Branch, $4,253, all foregoing Sullivan Co.—to H. D. Thomas, Fulton, over Branch, $667; over Branch, $601, both Hickory Co.—to M. Wunderlich, Jefferson City, over Platte River, $10,839; over Fratwell Branch, $1,849, both Lewis Co. — to J. M. Roark, Anderson, over Branch, $629; over Branch, $907, both Jasper Co.—to Independent Constr. Co., Pittsburg, Kan., over Branch, $512; over Branch, $539; over Branch, $497, all foregoing Vernon Co. — to Kelly & Underwood, Granby, over Dry Branch, $1,692; over Branch, $510; over Branch, $591; over Dry Wash, $897, all foregoing Newton Co.—to M. E. Gillioz, Monett, over Swan Creek, Taney Co., $25,793—to Service Constr. Co., Poplar Bluff, over Lick Fork of Gasconade River, Wright Co., $14,993—to C. I. Williams, Monett, over Branch, Greene Co., $615—to Moore Bros. Constr. Co., East St. Louis, Ill., over Brush Creek, Polk Co., $4,821—to Gerard Knutson, Kansas City, over 102 River D. D., Buchanan Co. $28,025—to B. F. Brooks Constr. Co., Love Field, Dallas, Tex., over Hawkin Branch, $1,543—to L. L. Sharp, Greenfield, over Branch, Dade Co., $621. Grand total $143,819. Noted Jan. 28.

Mo., St. Louis—Bd. P. Serv., City Hall, timber for decking double track railroad on St. Louis Municipal Bridge and approaches, to Julius Seidel Lumber Co., 2200 South Kingsway, $173,059. Noted Jan. 7.

New Jersey—State Hy. Comn., Trenton, bridge over Hudson River Traction Co. and Pleasant Ave., Bergen Co., to R. J. Fox, 565 George Rd., Grantwood, $52,116. Noted Jan. 14.

Oklahoma—State Hy. Dpt., Oklahoma City, one 200 ft., one 100 ft. and four 50 ft. I-beam span concrete bridge on concrete piers at Watts, Adair Co., to Keliher Constr. Co., Home Insurance Bldg., Little Rock, Ark., $48,494, est. $60,000—widening bridge over Arkansas River at Tulsa, Tulsa Co., to Standard Paving Co., 2119 East 11th St., Tulsa, $156,117, est. $210,000—2 span 182 ft. steel truss, and I-beam bridge on concrete piers at Calumet, Canadian Co., to H. Merveldt, El Reno, $36,672 est. $45,000. Grand total $241,373. Noted Feb. 4.

Wash., Seattle — Bd. P. Wks., City Hall, widening University Bridge and replacing timber approaches with wider concrete and steel approaches, to General Constr. Co., Colman Bldg., $446,475. Noted Jan. 14.

STREETS AND ROADS

PROPOSED WORK

Wis., Milwaukee—City, D. McKeith, comr., paving program for 1932. $1,500,000.

BIDS ASKED

Ark., Van Buren—See "Contracts Awarded."

California—Feb. 24, by C. H. Whitmore, dist. engr. State Hy. Comn., 502 State Office Bdg., Sacramento, applying Diesel oil to roadside vegetation on 293 mi. in various northern counties.

California—Feb. 24, by State Hy. Comn., Sacramento, grading, concrete surfacing 0.8 mi. road between Sorrento Creek and Del Mar, San Diego Co.; grading, asphaltic concrete surfacing 1.9 mi. road in Fullerton, Orange Co. C. H. Purcell, ch. hy. engr.

Calif.,. Los Angeles—Bd. P. Wks. received no bids improving Holly Drive and Deep Well Place Impvt. Dist. J. J. Jessup, City Hall, engr. Noted Jan. 28.

Conn., Meriden—See "Contracts Awarded."

Idaho—Feb. 26, by G. E. McKelvey, acting comr. P. Wks., Boise, crushed rock surfacing 24,880 cu.yd. North and South Hy. between Whitebird and Slate Creek, Idaho Co.

Idaho—Feb. 26, by G. E. McKelvey, acting comr. P. Wks., Boise, grading, drainage structures, graveling 9.535 mi. North Side Hy. between Jerome and Eden, Jerome Co.

Indiana — Mar. 1, by State Hy. Comn., Indianapolis, **(F.A.P. means Federal Aid Project)**, concrete, bituminous concrete, brick, asphaltic macadam, rock asphalt surfacing 0.153 mi. east approach to Vincennes Bridge over Small Creek and approaches to bridge over Mariah Creek, both near Vincennes, Project 100-78-C-1 Knox Co.—4.376 mi. Rd. 54 from Springville northwest, F.A.P. 161-B, Lawrence and Greene Counties—12.83 mi. State Rd. 45, Haysville-Loogootee Rd., F.A.P. 185, Dubois and Martin Counties—9.165 mi. State Rd. 25 from Delphi to Burrows, F.A.P. 186-A, Carroll Co.—10.348 mi. State Rd. 25 from Burrows to Logansport, F.A.P. 186-B, Carroll and Cass Counties—13.809 mi. State Rd. 56 from Blocher to Madison, F.A.P. 212-A, B and C, Scott and Jefferson Counties—4.728 mi. State Rd. 150, also approaches to bridge over Silver Creek near

Constr. News page 51a

Streets and Roads (Continued)

Sellersburg, F.A.P. 215-71-A-1 Floyd and Clark Counties—8.941 mi. State Rd. 15 from State Rd. 5 to Nickel Plate R.R., F.A.P. 242-A Wabash and Kosciusko Counties — 7.239 mi. State Rd. 15 from Nickel Plate R.R. to Warsaw, also bridge approaches near Etna Green and approaches to bridge over Tippecanoe River near Warsaw, F.A.P. 242-B and 66-B1 and C1, Kosciusko Co.—5.124 mi. State Rd. 44 from Glenwood to Connersville, also approaches to bridge over White Water Canal near Connersville, F.A.P. 250-80-A1 Fayette Co.—10.05 mi. State Rd. 50, from Shoals to Huron, F.A.P. 252 Knox Co. — grading, drainage structures, bridges of 20 ft. clear span or under 8.496 mi. State Rd. 50, from Shoals to Huron, F.A.P. 145-A Martin and Lawrence Counties—12.011 mi. State Rd. 50 from Huron to State Rd. 37, F.A.P. 145-B Lawrence Co. State will furnish cement on above paving projects. J. J. Brown, dir.

Ind., Brazil—Mar. 8, by Bd. Comrs. Clay Co., improving Cliff Lowe Rd. $22,476; James Quincy Adams Rd. $20,284. L. H. Schopmeyer, Brazil, aud.

Ia., Sibley—Feb. 26, at office Auditor Osceola Co., grading, incidental work 9.25 mi. local road, incl 18,208 cu.yd. cast and fresno work, 57,604 cu.yd. balanced quantities, also 3 concrete box culverts, 1 extension, 550 ft. 15-in. culvert pipe, 150 ft. 18 in. and 216 ft. 30 in. rein.-con. pipe, 76 ft. 36 in. culvert pipe installed.

Kansas—State. Hy. Comn., Court House, McPherson, postponed taking bids to have been opened Feb. 26, **(K.P. means Kansas Project and F.A.P. Federal Aid Project)**, regravel surfacing 14.2 mi. U. S. Hy. 77, K.P. 7543—13.2 mi. K.P. 15-7553—8.4 mi. K.P. 4-7556—8 mi. K.P. 4-7555, all Dickinson Co.—2.1 mi. K.P. 57-7544, Morris Co.—19 mi. K.P. 57-7545 Geary Co.—7.7 mi. U. S. Hy. 50-S, K.P. 7546—4.5 mi. U. S. Hy. 50-S, K.P. 7547—14.9 mi. K.P. 15-7554—5.4 mi. U. S. Hy. 50-S, K.P. 7557—grading, drainage structures, culverts 5.918 mi. U. S. Hy. 77, F.A.P. 240-D, all Marion Co.—regravel surfacing 7 mi. U. S. Hy. 50-S, K.P. 7548 Chase Co.—20.6 mi. U. S. Hy. 36, K.P. 7549—10.4 mi. U. S. Hy. 36, K.P. 7550—11.4 mi. U. S. Hy. 36, K.P. 7551—7.2 mi. K.P. 15-7552, all Washington Co.—concrete surfacing 1.476 mi. K.P. 4, F.A.P. 446-A—1.619 mi. U. S. Hy. 81, F.A.P. 296-D, both McPherson Co.—2.417 mi. U. S. Hy. 81, F.A.P. 296-B, Saline Co. W. V. Buck, Topeka, hy. engr.

Kansas—State Hy. Comn., Court House, Hays, postponed taking bids to have been opened Feb. 19 **(F.A.P. means Federal Aid Project and K.P. Kansas Project)**, grading, drainage structures 4.104 mi. U. S. Hy. 3, F.A.P. 247-B—4.013 mi. U. S. Hy. 83, F.A.P. 247-C, both 30 ft., Logan Co.—6.108 mi. U. S. Hy. 40-N, F.A.P. 311-A—3.583 mi. U. S. Hy. 40-N, F.A.P. 379-A, both 30 ft., Graham Co. W. V. Buck, Topeka, hy. engr.

Kansas—Feb. 24, by State Hy. Comn., La Crosse **(F.A.P. means Federal Aid Project and K.P. Kansas Project)**, grading, drainage structures 0.158 mi. U. S. Hy. 50-N, F.A.P. 295-A—grading, drainage structures, culverts 11.179 mi. K.P. 1, F.A.P. 443-A—0.254 mi. K.P. 1, F.A.P. 443-C, all Pawnee Co.—7.981 mi. K.P. 1, F.A.P. 443-B Rush Co. W. V. Buck, Topeka, hy. engr.

Kan., Mound City—Bd. Supervs. Linn Co., bids in spring or early summer chat surfacing and culverts 17 mi. Centerville-Pleasanton Road Dist.—11 mi. Wall Street Rd.—3.5 mi. in Lincoln Twp.—4.5 mi. in Mound City and Stanton Twps. County will grade above roads with own forces. C. E. Kenney, Mound City, co. engr. Kansas Eng. Co., 601 Kansas Ave., Topeka, consult. engrs.

Kentucky—State Hy. Dpt., Frankfort, rejected bids Jan. 26, surfacing 6.1 mi. Wickliffe-Paducah Rd., Federal Aid Project 154-AS2 Ballard Co.—6.9 mi. Clinton-Bardwell Rd., Federal Aid Project 131-ES2 Hickman Co.—16.5 mi. Smithland-Marion Rd., Federal Aid Project 62-A1S-2 Livingston Co.—15.1 mi. Paducah-Smithland Rd., State Aid Project 8-EDS McCracken and Livingston Counties. B. Johnson, chn. Noted Dec. 7.

Maryland—Feb. 23, by State Roads Comn., Baltimore, G. C. Uhl, chn., concrete paving 1.46 mi. Contr. Ce128-24 Cecil Co.; gravel surfacing 1.18 mi. Contr. SM-88-82, St. Mary's Co.; adv. E. N.-R. Feb. 18.

Md., Baltimore—Feb. 24, by Bd. Awards, sheet asphalt paving 8,100 sq.yd. streets in Contr. 611. G. Cobb, Municipal Bldg., hys. engr.

Michigan—Feb. 23, by N. J. Kingscott, div. engr., 213 Watson Bldg., grading, drainage structures 1.022 mi. FO61-11-C-7, Muskegon Co., for State Hy. Comn., Lansing.

Michigan—Feb. 23, by J. T. Sharpensteen, div. engr., Escanaba, shaping, grading, drainage structures, gravel surfacing 5.179 mi. MO66-26C-1 18 ft., Ontonogon Co., for State Hy. Comn., Lansing.

Michigan—Feb. 24, by A. L. Burridge, div. engr., Cadillac, shaping, grading, drainage structures, 21 ft. two-course gravel surfacing 3.01 mi. FO83-13C-2, Wexford Co., for State Hy. Comn., Lansing.

Mississippi—Feb. 23, by State Hy. Comn., Jackson, clearing, grubbing, grading, drainage structures 3.118 mi. Laurel-Hattiesburg Rd., incl. 1.77 mi. Bermuda sodding, 48 marker plates, bridges, concrete railing, Federal Aid Project 70-E, Jones Co. C. M. Williamson, dir.

Mo., Independence—Feb. 23, by L. E. Koehler, hy. engr., Jackson Co., Court House, Independence, and Stayton & Veatch, consult. engrs., 508 Interstate Bldg., Kansas City, grading, concrete paving, 22,766 sq.yd. and rein.-con. bridge on Ash Avenue Rd.; grading, concrete paving, 81,558 sq.yd. and 2 bridges on Sugar Creek Rd. Noted Jan. 14.

N. Y., New York—Feb. 24, by S. Levy, pres. Manhattan Boro, Municipal Bldg., completing grading, granite block on concrete repaving Mott St. from Houston St. to Park Row (Bowery). Former contract abandoned.

Pennsylvania—Feb. 26, by State Hy. Dpt., Harrisburg, grading, drainage structures, one course rein.-con. surfacing 9,685 sq.yd. Route A-6723 and 6724, Bristol Twp. and Boro. Bucks Co.—grading, drainage structures, oil bound surface course on native or modified broken stone surfacing 39,780 sq.yd., also 33 sq.yd. rein.-con. wearing surface for bridge, Route 290, Rural Road System 30023, Cumberland Twp., Greene Co.—275 ft. bridge, incl. three 65 ft. rein.-con. spandrel filled arch spans, 30 ft. roadway over Neshaminy River, also bituminous surface treated macadam surfacing 2,999 sq.yd. Route 326, Sect. A, Newton and Northampton Twps., Bucks Co.—219 ft. 9 in. bridge, incl. one 213 ft. 9 in. steel through truss span, repairing abutments, 30 ft. roadway, two 5 ft. sidewalks over French Creek, Route R-82, Vernon Twp., Meadville City, Crawford Co.—368 ft. bridge, incl. one 256 ft. through truss structural steel span, and two 51 ft. I-beam spans, 30 ft. roadway, one 5 ft. sidewalk over Mahoning River, also grading, drainage structures, one course rein.-con. paving 3,050 sq.yd. Route 77, Sect. 3-A, North Beaver Twp., New Castle, Lawrence Co.—499 ft. bridge, incl. one 310 ft. through truss structural steel, one 93 ft. 6 in. plate girder, one 83 ft. through plate girder spans, 32 ft. roadway, two 5 ft. sidewalks over Kiskiminitas River and Pennsylvania R.R., Route 188, Parks Twp., Vandergrift Boro, Armstrong and Westmoreland Counties. S. S. Lewis, secy.

Texas—Feb. 29, by G. Gilchrist, state hy. engr., Austin **(F.A.P. means Federal Aid Project and S.A.P. State Aid Project)**, 1 in. two course limestone rock asphalt wearing surface paving 13.622 mi. Hy. 72, S.A.P. 788-A, B, C and D, Unit 3, Karnes Co., $25,000—bituminous on iron ore top soil base surfacing 26,085 cu.yd. Hy. 19, F.A.P. 403-B, Unit 2, Anderson Co., $26,000—caliche base course surfacing 89,328 cu.yd. Hy. 9, F.A.P. 60-C and 546-G, Unit 2, Randall Co. $52,000—triple asphalt on caliche base surface treating 109,853 cu.yd. Hy. 27, F.A.P. 612 B and C, Pecos Co., $140,000—concrete paving 149,039 sq.yd. Hy. 75, F.A.P. 547-E and F and S 844E, Wheeler Co. $240,000, 152,266 sq.yd. Hy. 64, F.A.P. 629-A and E, Van Zandt Co., $240,000—40.197 sq.yd. Hy. 14, F.A.P. 643-B, Freestone Co., $54,000—grading, drainage structures, underpass drainage, concrete paving 7,187 sq.yd. Hy. 3, S.A.P. 973-B, Fort Bend Co., $30,000.

Texas—Mar. 1, by G. Gilchrist, state hy. engr., Austin **(F.A.P. means Federal Aid Project and S.A.P. State Aid Project)**, 9-7-9 in concrete paving 91,789 sq.yd. Hy. 15, S.A.P. 386 and 496C-F363-D, Van Zandt Co., $140,000—concrete paving 158,178 sq.yd. Hy. 71, S.A.P. 945-A, Wharton Co., $220,000—167,478 sq.yd. Hy. 43, F.A.P. 453 A and 582 A, Unit 2, Leon Co., $220,000—130,085 sq.yd. Hy. 5 and 115, S.A.P. 968-B and F585-B, Potter Co., $200,000—triple asphalt on caliche and waterbound broken stone base surface treating 19.618 mi. Hy. 10, F.A.P. 584-B, Unit 2, Brown Co., $120,000—caliche base course surfacing 35,982 cu.yd. Hy. 136, S.A.P. 984-C, Unit 2, Potter Co., $30,000—grading, drainage structures 11.473 mi. Hy. 3, S.A.P. 862-A, Presidio Co., 26 ft., $36,000.

Tex., Dallas—Feb. 24, by City, c/o E. Goforth, secy., concrete curbing, guttering, grading, 2 in. asphalt, 2½ in. brick on 6 in. concrete or 10-7-10 in. rein.-con paving 36,070 sq.yd. Ross Ave., from Leonard to Peck Sts. O. H. Koch, Dallas, dir. P. Wks.

Utah—Feb. 25, by State Hy. Comn., Salt Lake City, grading, drainage structures, gravel surfacing 7.705 mi. Grand Canyon Hy., from Bryce Junction to Hatch, Federal Aid Project 117-B, Garfield Co. H. S. Kerr, hy. engr.

Washington—Feb. 23, at office S. J. Humes, dir. Hys., Olympia, grading, drainage structures, crushed stone surfacing 0.4 mi. State Rd. 1, Sect. 1, Chuckanut Creek Bridge Fill in Bellingham, and Sect. 2, Clayton Bay Fill, both 20 ft. with two 4 ft. shoulders, Whatcom Co.—concrete surfacing 11.8 mi. State Rd. 3, Umptanum to Hillside, 20 ft., two 4 ft. shoulders—11.5 mi. State Rd. 3 from Ellensburg to Umptanum, Federal Aid Project 125-A, both Kittitas Co.

Washington—Mar. 8, at office S. J. Humes, dir. State Hys., Olympia, concrete paving 11.7 mi. State Rd. 3 from Hillside to Yakima, Kittitas and Yakima Counties—grading, crushed stone paving 12,500 cu.yd. State Rd. 10 from Entiat Ferry to Orondo Rd., Douglas Co. — bituminous macadam paving 43 mi. State Rd. 14, Harper and Manchester, etc. — rein.-con. girder bridge over Okanogan River, at Tonasket, Okanogan Co.—resurfacing, stockpiling 5,580 cu.yd. crushed stone on 15.5 mi. State Rd. 5 from Kosmos to Divide, Lewis Co.

Wash., Prosser—Feb. 26, by Comrs. Benton Co., grading, crushed stone surfacing 7.5 mi. Lateral Highway 6. H. J. Strandwold, Prosser, co. engr.

Wash., Tacoma—Feb. 29, by Comrs. Pierce Co., concrete paving 16,829 sq.yd. Point Fosdick-Gig Harbor Rd., Highway 11. $37,000. W. E. Berry, Court House, co. engr.

Wis., Superior—Feb. 23, by C. I. Germond, comr. Douglas Co., paving 18 mi. $360,000.

CONTRACTS AWARDED

Ark., Van Buren—Bd. Supervs. Crawford Co., grading, native gravel surfacing 15 mi. ro[illegible] own forces.

California—State Hy. Comn., Sacramento, asphaltic concrete surfacing 14.7 mi. Coyote W[illegible] Dixieland Rd., 20 ft., Imperial Co., to Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, $387,395—grading, concrete surfacing, and widening existing pavement 20 and 30 ft. 1.4 mi. Sapulvedam Boulevard-Calabasas Rd., Los Angeles Co., to Kovacevich & Price, Inc., 5100 Imperial Hy-Way, South Gate, $163,194—grading .asphaltic concrete surfacing 1.5 mi. through Glendora, 40 ft. wide, bituminous macadam surfacing 8 ft. borders on each side, Los Angeles Co., to Oswald Bros., 366 East 58th St., Los Angeles, $51,155—grading, untreated crushed gravel or stone and fuel oil surfacing 1.6 mi. Angeles Camp Rd., Calaveras Co., to Larson Bros., P. O. Box 274, Galt, $25,607. Grand total $672,351. Noted Jan. 28.

Conn., Meriden—State Hy. Dpt., Hartford, J. Macdonald, comr., bituminous macadam paving 1 mi. hy., 28 ft., day labor as unemployment relief project. Est. $25,000.

Delaware — State Hy. Dpt., Dover, clearing, grubbing, grading, concrete paving 3.74 mi. Gum Cross Roads, Middleford, Contr. 229, Sussex Co., to Continental Contg. Co., 2508 North Charles St., Baltimore, Md., $59,599—2.75 mi. Stockley-Zoar Camp Rd., Contr. 232, Sussex Co., to Old Line Constr. Co., Chestertown, Md., $21,9[illegible]—grading, excavating 1 mi. Augustine Bridge-Concord Pike Rd., Contr. 237, to A. Petrillo & Co., 5 Edgemoor Rd., Hollyoak, $16,710—excavating, borrow, concrete sidewalks, 2,700 ft. Middletown—St. Anne's Church Rd., Contr. 238, to Spear-Jones & Co., Scranton, Pa., $4,775—6,275 ft. Kennett Pike-Greenville Rd., Contr. 239, to J. Thomas, New Castle, $7,723—1,250 ft. Naamans Creek Rd., Phila. Pike to Hickman Rd., Contr. 236, to E. DiSabatino & Sons, 839 Tatnall St., Wilmington, $1,780, all foregoing in New Castle Co.—grading, borrow, concrete sidewalks 5,255 ft. Dover-State College Rd., Contr. 235, Kent Co., to C. C. Brown, East Falls, Va., $4,577. Grand total $117,113. Noted Jan. 7.

Indiana—State Hy. Comn., Indianapolis, concrete surfacing 82,140 sq.yd. Clay Co., to Foulkas Contg. Co., 705½ Ohio St., Terre Haute, $125,223 est. $157,311—29,911 sq.yd. Elkhart Co., to R. L. Harris, State Rd., Ft. Wayne, $35,695 est. $48,408—103,194 sq.yd. Montgomery Co., to Indiana Road Paving Co., Rochester, $164,036 est. $205,703—3,883 sq.yd. Rd. 29, Pulaski Co., to D. M. Vaughan, Lafayette, $10,939 est. $17,551—155,514 sq.yd. Elkhart and Noble Counties, to Moellering Constr. Co., 241 Murray St., Ft. Wayne, $174,824 est. $254,582—1,653 sq.yd. Lake Co., to Gross Constr. Co., La Porte, $3,710 est. $3,757—213,814 sq.yd. Vanderburg and Posey Counties, to Louis des Cognets & Co., Lexington, Ky., $326,401 est. $418,414—56,960 sq.yd. Putnam Co. and 97,625 sq.yd. Vermillion and Parke Counties, to P. B. Putnam, 2222 Kensington St., Ft. Wayne, $110,32 5and $132,257 respectively est. $151,049 and $180,413 respectively—0.45 mi. Miami Co., to C. J. Burke, Peru, $9,750 est. $15,466—bituminous tread surfacing 23.061 mi. Jefferson and Ripley Counties, to Blair & Franse Constr. Co., Inc., Lexington, Ky., $237,726 est. $307,475. Grand total $1,330,886. Noted Jan. 21.

Kan., Mound City—See "Bids Asked."

Kentucky—State Hy. Dpt., Frankfort, traffic bound limestone surfacing 6.82 mi. Russellville-Central City Rd., State Project 15-ABS, Logan Co., to Kaiser Transportation Co., Buchel, $22,375; 7,051 mi. Central City-Russellville Rd., State Project 15-BS, Muhlenberg Co., to Corum Bros., Madisonville, $31,069. Noted Dec. 7.

Missouri—State Hy. Dpt., Jefferson City, to M. Wunderlich, Jefferson City, graveling 2.01 mi. West Plains Rd., Sect. 1, Howell Co., $7,771; 4.462 mi. same road Sect. 2, $9,054; 4.868 mi. Sect. 3 same road, $9,910; graveling and crushed stone surfacing 4.307 mi. Rolla-Salem Rd., Sect. 1, Phelps Co., $24,691; 4.498 mi. Sect. 2, same road, $16,760; 4.214 mi., Sect. 3, same road, $26,191; graveling 4.038 mi. Sect. 4, Rolla-Salem Rd., Dent Co., $23,327; 4.536 mi. Sect. 5, same road, $32,380; 4.316 mi. Sect. 6 same road, $24,735; grading 2.043 mi. Route 19, Couch Rd., $10,021; 4.318 mi. Sect. 3 same road, $13,886; 1.826 mi. Sect. 4 same road, $4,031; 3.699 mi. Thayer East Rd., $6,423, all foregoing Oregon Co. Grand total $209,160. Awarded Feb. 9.

Missouri—State Hy. Comn., Jefferson City, to J. M. Roark, Anderson, chat surfacing 3.053 mi. Route S. B. East, Sect. 3, Jasper Co. $8,356—to J. Spitcaufsky, Kansas City, grading 2.438 mi. Route 71 to Bolchow, Sect. 1, Andrew Co. $4,980—to Amyx & Mitchell, Bakersfield, crushed stone and graveling 2.322 mi. Wheatland North Rd., Sect. 1, Hickory Co. $5,501—to H. D. Thomas, Fulton, 1.863 mi. same road, Sect. 2, Hickory Co. $3,876—to Kelly & Underwood, Granby, chat surfacing 4.012 mi. Granby Corner-Fairview Rd., Sect. 2, Newton Co. $10,510; 3.371 mi. same road, Sect. 3, $8,123; 3.354 mi. same road, Sect. 4, $6,582; crushed stone surfacing 2.982 mi. Christian County-Taney County Rd., Sect. 110A, Stone Co., $16,336; 3.873 mi. same road Sect. 109A, $18,264—to G. Knutson, Kansas City, 0.062 mi. East of St. Joseph, Sect. 2B, Buchanan Co., $2,310—to A. W. Mosely, Kansas City, grading 2.898 mi. Clearmont to Elmo, Sect. 1, $7,346; 2.557 mi. same road, Sect. 2, $5,398; 4.754 mi. Barnard-Guilford Rd., Sect. 2, $17,305, all foregoing Nodaway Co.—to C. I. Williams, Monett, crushed stone and graveling 2.647 mi. Strafford to Cody, Sect. 4, $5,402; 2.01 mi. Cody South, $4,261, both Green Co.; 3.892 mi. Billings-Clever Rd., Sect. 1, Christian Co. $14,205; 2.278 mi. same road, Sect. 2, $7,806—to C. W. Rose, Brookfield, graveling 4.091 Green City-Winigan

Streets and Roads (Continued)

Rd., Sect. 3, Sullivan Co. $10,861; 4.003 mi. Green City-Winigan Rd., Sullivan Co. $11,061 —to M. Wunderlich, Jefferson City, graveling 2.273 mi. Monticello Rd. N, Sect. 1, Lewis Co. $7,624; 2.038 mi. Nodaway Co. to Sheridan Rd. Sect. 2, Worth Co. $11,236; 2.461 mi. Philadelphia Rd. N., Sect. 2, Marion Co. $10,342; 2.626 mi. same road, Sect. 3, $7,771; 0.162 mi. Route SN, West Rd., Sect. 3A, Marion Co. $349—to W. J. Memefee Constr. Co., Sedalia, 3.62 mi. Salem-Lenox Rd., Sect. 1A, Dent Co. $2,451; 4.476 mi. same road Sect. 3A, $2,996; 3.409 mi. Sect. 4A same road, $2,291—to Gaines Bros., Jefferson City, 4.33 mi. Humphreys-Reger Rd., Sect. 330E, Sullivan Co. $33,136; 2.916 mi. Sect. 330F same road, $18,157—to Independent Constr. Co., Pittsburg, Kan., 4.201 mi. Walker-Harwood Rd., Sect. 2, Vernon Co. $12,042; 4.186 mi. same road Sect. 3, $12,543 — to Service Constr. Co., Poplar Bluff, 1.218 mi. Hartsville-Mansfield Rd., Wright Co., $13,048—to M. E. Gillioz, Monet, 0.416 mi. Forsythe Rd. W., Taney Co. $2,793—to Moore Bros. Constr. Co., East St. Louis, Ill., 0.283 mi. Humansville-South Rd., Sect. 46B, Polk Co. $3,461—to McMahon & Waller Constr. Co., Rich Hill, 4.991 mi. DeKalb Co. to Route 69, Sect. 338A, Daviess Co. $26,438—to R. G. Aldridge, 1310 State Ave., Kansas City, 3.296 mi. Allendale Rd. E., Worth Co. $18,355; 2.345 mi. Eugene-Tuscumbra Rd., Sect. 5, Miller Co. $18,161—to Garrett Constr. Co., Springfield, 3.121 mi. Bolivar-Brighton Rd., Polk Co. $13,765—to L. L. Sharp, Greenfield, 4.395 mi. Neola Rd. W., Dade Co., $17,165. Grand total $402,607. Noted Jan. 28.

N. Y., Long Island City—G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., to Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, asphalt paving 54th Ave. $11,696; Van Alst Ave. $20,751; 44th Ave. $11,011—to Cleveland Trinidad Paving Co., Flushing, 37th St. $8,594; Park Lane $4,641; Ericson St. $7,539; 113th St. $35,055; 120 St. $24,098; 26th Ave. $29,232; 38th Ave. $7,024—to Pomonok Asphalt Paving & Material Co., 1246 Grand St., Brooklyn, 76th St. $10,764 — to Gramaglia Eng. Co., 5037 Fieldston Rd., New York, regulating Hempstead Ave., $26,826; Christie Ave. $5,810—to P. K. Kelly Contg. Co., 6009 Woodside Ave., Woodside, 48th Ave. $10,727—to Merazzi & Temperini, grading 219th St. $1,242—to Tully & DiNapoli, Inc., 30-11 Sherman St., Astoria, Union Turnpike, $98,907. Grand total $313,817. Noted Jan. 7.

Oklahoma—State Hy. Dpt., Oklahoma City, grading, drainage structures 6.21 mi. State Hy. 14, north of Arapahoe and 2.61 mi. State Hy. 14 south of Clinton, 32 ft., to T. C. Ottinger, Hinton, $39,477 and $23,026 respectively est. $45,000 and $25,000 respectively; 8 span 142 ft. rein.-con bridge at Arapahoe, to J. W. Hoffer, Oil Exch. Bldg., Oklahoma City, $19,991 est. $25,000, all foregoing in Custer Co., bridge over Chickasaw Creek, Rd. 271 near Finley, Pushmataha Co., to D. C. Sampley, Sulphur, $9,410; drainage structures Rd. 64, near Bruner Station, to C. Schultz, Tulsa, $7,148. Grand total, $101,052. Noted Jan. 28.

Oklahoma—State Hy. Dpt., Oklahoma City **(F.A.P. means Federal Aid Project and S.A.P. State Aid Project)** concrete slab surfacing 3.1 mi. S.A.P. 556-A, and 4.708 mi. F.A.P. 164-F-2, both 20 ft. wide, to Ryan-Richards Co., 1801 East 9th St., Oklahoma City, $55,885 and $97,616 respectively, est. $70,000 and $120,000 respectively—6.136 mi. F.A.P. 164-G-2, 32 ft., to Sandy Hites Constr. Co., Kansas City, Mo., $134,295, est. $150,000—grading, drainage structures 4.708 mi. F.A.P. 164-F-1, 32 ft., to Hyde Constr. Co., American Bank Bldg., Enid, $19,417, est. $27,000—6.136 mi. F.A.P. 164-G-1, 32 ft., to J. J. Harrison, Norman, $64,107, est. $75,000, all above in Canadian Co.—5 mi. County Rd. 2-A, 30 ft., Custer Co., to C. Merveldt, El Reno, $23,038, est. $28,000—8.526 mi. S.A.P. 728-A and B, 32 ft., Cotton Co., to Younger Bros., Empire Bldg., Oklahoma City, $20,790, est. $26,000. Grand total, $415,148. Noted Feb. 4.

Wyoming—State Hy. Comn., Cheyenne, grading 16.192 mi. Freemont Co., to J. J. Dooling, Denver, Colo., $57,413—7 treated timber bridges on same road, to L. Landreth, Wheatland, $9,651—grading 6.111 mi. Fremont Co., to Blanchard Bros., 1641 South Logan St., Denver, Colo., $22,394—bridges on same road and grading, bridging 16.261 mi. Lincoln Co., to Morrison-Knudson Co., Boise, Idaho, $31,341 and $69,842 respectively—grading 10 mi. road in Natrona Co., to Taggart Constr. Co., Cody, $6,215—180 ft. bridge, approaches Big Horn Co., to W. P. Roscoe, Greybull, $18,370—base course surfacing 12.767 mi. Platte Co., to Martin & Norman, Wheatland, $13,417—24.802 mi. Albany Co., to S. J. Groves, Billings, Mont., $30,885—constructing 12 x 21 ft. oil house at Kemmerer, to F. A. and G. L. Coal, Cheyenne, $970. Grand total $260,498.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

California—The Imperial Irrigation District, Imperial, approved construction of the All-American Canal. Est. $34,000,000.

Kan., Belle Plaine — Cowskin Drainage Dist., Sumner Co., L. Wagner, chn., straightening, shortening Cowskin Creek to Arkansas River; Election in March, $55,000 for same. Kansas Eng. Co., 601 Kansas Ave., Topeka, engrs.

BIDS ASKED

Ill., Sycamore—Feb. 27, by Comrs. Kingston Genoa Drainage Dist., incl. 57,120 cu.yd. earth excav., 1,490 ft. 14- to 24-in. tile drain, 48 in. corrugated culvert 30 ft. long, 7 farm field crossing bridges, 25 cu.yd. concrete in place. W. M. Hay, 208 Leslie Bldg., De Kalb, civil engr.

La., New Orleans—Apr. 4, by Sewerage & Water Bd., concrete lined open canal and lined and covered canal and connections, in Orleans Relief Canal Pumping Station 7, Contr. 212-D. $30,000.

CONTRACTS AWARDED

Ill., De Kalb—De Kalb Co., removing 18,000 cu.yd. earth excav. from main open ditch in Union D. D. 1, of towns Cortland and Pierce, to C. E. Nelson, Rockford, Ill., and Nelson Cole & Sons, Bloomington, Ind.

N. Y., New York — New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., excavation to accommodate depressed tracks 10th Ave., West 44th and 45th Sts., to G. J. Atwell Foundation Co., 136 East 57th St.

Bond Elections

Coming Bond Elections

Sewers and Disposal Plant—Washington, Mo., Feb. 23, $30,000. W. B. Rollins & Co., Kansas City, engrs.

Sewage Disposal Plant—Richmond, Va., Mar. 16, $50,000.

Flood Control Dams—Jeanette, Pa., $150,000. A. Gillespie, Chn. Fin. Comn.

City Hall—Columbia, Mo., Apr. 5, $100,000.

High School — San Gabriel, Calif., Feb. 23, $345,000.

Bonds Voted

Sewage Disposal Plant—Elk City, Okla., $25,000. Long & Co., Oklahoma City, engrs.

Hydro Electric Plant — Coeur d'Alene, Idaho, $600,000.

FEDERAL GOVERNMENT

PROPOSED WORK

Ark., McGehee—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., sketches brick, stone, concrete U. S. Post Office. $100,000. J. A. Wetmore, Wash., D. C., acting superv. archt.

Ark., Monticello—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., sketches concrete, brick, stone U. S. Post Office. $100,000.

Ark., Star City—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., sketches rein-con., brick, stone U. S. Post Office. $75,000.

Ariz., Yuma—FEDERAL BUILDING—Treas. Dpt. at office Sup. Archt., Wash., D. C., 2 story, 80 x 106 ft. federal building. $190,000 appropriated by Congress for same. Noted July 2.

Calif., San Francisco—SEAWALL—Con. Q.M. Fort Mason, 215 ft. rein.-con. dock extension, Fort Baker.

Mich., Detroit—HOSPITAL, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans being completed by Weston & Ellington, engrs. and archts., 1507 Stroh Bldg., 3 and 4 story, basement, brick, steel, rein.-con. hospital, nurses' home, medical officers' quarters, laundry, Alter and Riverside Rds., at Windmill Pointe (Grosse Pointe), $600,000. Noted June 18.

N. J., Englewood—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., 2 story, basement, brick, steel, Engle St. $182,000. J. A. Wetmore, c/o owner, acting superv. archt. Noted Jan. 21.

N. J., West New York—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids in June, general contract 2 story, basement, brick, steel, Van Buren Pl., 17th and Madison Sts. $375,000. P. Cayot, 129 23rd St., archt. Bowden, Russell & Garland, 19 West 44th St., New York, assoc. archts. Noted Jan. 28.

N. Y., New York — HOSPITAL — Vet. Bu., Arlington Bldg., reconstructing neuropsychiatric hospital into general medical and surgical hospital; and necessary additional buildings, 130 West Kingsbridge Rd. $500,000.

O., Cincinnati—POST OFFICE—Treas. Dpt. at office, Sup. Archt., soon takes bids excavation, foundation, piling for 4 story, basement, stone, rein.-con., steel, Liberty, Dalton and Sherwood Sts. Total est., $3,000,000. S. Hannaford & Son, Dixie Terminal Bldg., archts. C. J. Keifer, Schmidt Bldg., mechanical engr. Noted Sept 10.

Pa., Pittsburgh—LOCKS—U. S. Eng., War Dpt., Wash., D. C., 110 x 600 ft. inner and 56 x 360 ft. outer locks on left bank Ohio River, 30 mi. from here, incl. 333,800 cu.yd. common excav., 184,000 cu.yd. fill, 10,000 sq.ft. sheet piling, 88,000 lin.ft. round piling, 235,000 cu.yd. concrete, 470,000 lb. reinforcing steel, 313,000 lb. structural steel, 1,600,000 lb. castings, etc. $3,000,000. W. D. Styers, Kennan Bldg., dist. engr.

BIDS ASKED

Ark., North Little Rock—ADMINISTRATION —Mar. 1, by Vet. Bu., Arlington Bldg., Wash., D. C., administration hospital, at U. S. Veterans' Hospital.

Ark., Pine Bluff—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about May 1, 2 story, 20 x 82 ft. rein.-con., brick, stone addition. $60,000.

Caif., Alameda—DRAINAGE SYSTEM—Mar. 7, at office Con. Q. M., Benton Field Air Depot, 33 Pacific Ave., drainage system, at Benton Field Air Depot.

Calif., Sunnyvale—WELLS, etc.—Spec. 6789 —Mar. 2, by Yards & Docks, Navy Dpt., Wash., D. C., 2 gravel-wall wells, pumps and pump houses at Naval Air Station.

Conn., Manchester—ELEVATORS—Mar. 3, by Treas. Dpt. at office Sup. Archt., Wash., D. C., electric elevators in U. S. Post Office.

Del., Wilmington—DREDGING—Feb. 23, by U. S. Eng., 1,800 cu.yd. material from U. S. Engineering Reservation Boat slip, Poplar and A Sts. on Christiana River; adv. E. N.-R. Feb. 18.

D. C., Wash.—ELECTRICAL EQUIPMENT—Mar. 10, at office D. Lynn, archt., Capitol, furnishing, installing electrical sub-station equipment complete in House of Representatives Office Building; adv. E. N.-R. Feb. 18.

D. C., Wash.—SLUICE GATES—Feb. 25, by Purchase Sect., Bureau Standards, Wash., D. C., sluice gates and floor stands, two 5-ton cranes for national hydraulic laboratory.

Idaho, Pocatello—ELEVATOR—Mar. 1, by Treas. Dpt. at office Sup. Archt., Wash., D. C., 1 electric passenger elevator in U. S. Federal Building. J. A. Wetmore, c/o owner, acting superv. archt.

Ill., Milan—EXCAVATING, etc.—Mar. 15, by U. S. Eng., Rock Island, excavating new cut-off channel, deepening, enlarging existing channel South Slough west of here; adv. E. N.-R. Feb. 18.

Ind., Greencastle—REMODELING, etc.—Mar. 3, by Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office; adv. E. N.-R. Feb. 18.

Ind., Indianapolis—POST OFFICE—Mar. 1, by Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging, finance division U. S. Post Office. Noted Nov. 12.

Ind., Terre Haute—ELEVATOR PLANT—Feb. 29, by Treas. Dpt. at office Sup. Archt., Wash., D. C., complete elevator plant in U. S. Post Office, Court House.

Ia., Davenport—ELEVATOR—Feb. 26, by Treas Dpt. at office Sup. Archt., Wash., D. C., elevator plant at U. S. Post Office and Court House.

Ky., Paducah—REMODELING—Feb. 29, by Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office.

Mich., Jackson—POST OFFICE—Mar. 8, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office (except elevator); adv. E. N.-R. Feb. 18. Noted May 21.

Minn., St. Paul—EXCAVATING, etc.—Mar. 2, by Treas. Dpt. at office Sup. Archt., Wash., D. C., excavating, foundations, for basement structure and plumbing for U. S. Post Office, Custom House, etc.; adv. E. N.-R. Feb. 18.

N. Y., Brooklyn—PLUMBING—Feb. 29, by Treas. Dpt. at office Sup. Archt., Wash., D. C., renewing plumbing fixtures, new water supply piping in post office and court house.

N. D., Garrison—TEST BORINGS—Feb. 29, by U. S. Eng., Kansas City, Mo., 2,690 lin.ft. test borings, 100 lin.ft. open test pit and incidental work in Missouri River Valley, near here. Noted Feb. 11.

Pa., Pittsburgh—DIPPER DREDGE—Mar. 15, by U. S. Eng., furnishing, delivering afloat one 2½ yd. steel hull dipper dredge; adv. E. N.-R. Feb. 18.

Pa., Tamaqua—POST OFFICE, etc.—Mar. 1, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, and elevator in same.

Tex., Fort Sam Houston — LIGHTING SYSTEM—Mar. 3, by Treas. Dpt. at office Sup. Archt., Wash., D. C., electric underground distribution and street lighting system; adv. E. N.-R. Feb. 18.

Tex., Galveston—ELEVATOR—Feb. 25, by Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator at immigration station.

Virginia—DREDGING—Mar. 15, by U. S. Eng. Office, Norfolk, 176,638 cu.yd. in Pagan River; adv. E. N.-R. Feb. 18.

Cuba, Guantanamo Bay—TELEPHONE SYSTEM—Spec. 6709—Mar. 2, by Yards & Docks, Navy Dpt., Wash., D. C., automatic telephone system, at Naval Station; adv. E. N.-R. Feb. 18.

CONTRACTS AWARDED

Ark., Gillette—EARTHWORK—U. S. Eng., P. O. Box 667, Vicksburg, Miss., 45,000 cu.yd. earthwork in Farelly Lake Levee Dist., north bank Arkansas River, 6 mi. southwest of here, to Uzzelle & Rodgers, Memphis, Tenn., at $0.95 per cu.yd.

Calif., Palo Alto—TANK—Supervising Superintendent Constr., U. S. Veterans' Hospital, steel water tank and tower at U. S. Veterans' Hospital, to Huber Co., 9317 South Alameda St., Los Angeles, $7,274. Noted Dec. 24.

Calif., San Diego—STEAM SERVICES—Spec. 6750—Yards & Docks, Navy Dpt., Wash., D. C., steam services to barracks and mess hall, to Thomas Haverty Co., 316 East 8th St., Los Angeles, $12,220.

Calif., Stockton—DREDGING—U. S. Eng., Calif. Fruit Bldg., Sacramento, 3,100,000 cu.yd. in Stockton 26 ft. channel prism, to Longview Dredging Co., Longview, Wash., $225,548.

Calif., Sunnyvale—GAS HOLDER—Spec. 6768 —Yards & Docks, Navy Dpt., Wash., D. C.,

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Federa. Government (Continued)

2,000,000 cu.ft. capacity gas holder at Naval Air Station, to Stacey Mfg. Co., Elmwood Pl., Cincinnati, O., $114,487. Noted Jan. 21.

D. C., Wash.—ELEVATORS—Geo. A. Fuller Co., contractor, Munsey Bldg., awarded contract 13 signal controlled elevators for supreme court building, to Otis Elevator Co., 810 18th St. Noted Nov. 19, under "Contracts Awarded,."

Fla., St. Petersburg—HOME—Vet. Bu., Arlington Bldg., Wash., D. C., 5 story hospital, 4 story convalescent building, 4 story, laundry building, 1 story storehouse, gate house building and gates, 36,000 sq.yd. shell roads, grading, drainage grounds at Seminole Point Soldiers' Home, to J. I. Barnes, Logansport, Ind. Noted Dec. 3.

Illinois—LEVEE—U. S. Eng., Rock Island, new cut-off levee, 165,000 cu.yd. excav., in Indian Grave Drainage Dist., to W. S. Hardwick, Beardstown, at $0.1092 per cu.yd. Noted Dec. 17.

Ind., Evansville—HOSPITAL—Treas. Dpt. at office Sup. Archt., Wash., D. C., 2 story, basement, 42 x 124 ft., rein.-con., brick, steel, U. S. Marine Hospital, to Anderson & Co., 1632 West 75th Pl., Chicago, Ill., $75,600. Noted Jan. 7.

Ind., Evansville—ELEVATOR—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator in U. S. Marine Hospital, to Otis Elevator Co., 810 18th St. N. W., Wash., D. C., $5,225 Noted Jan 7.

Ky., Louisville—SPUR TRACK, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C, 4,375 ft spur track, 2 underpasses, to Louisville & Nashville R.R. Co., 9th and Bway. Sts. $49,240.

La., Shreveport—GASOLINE FUELING STATION—U. S. Eng., Barksdale Field, gasoline fueling system at Barksdale Field, to Aqua System, Inc., 2 Lafayette St., New York, $22,219. Noted Jan. 7.

Maine—DREDGING—Mar. 4, by U. S. Eng., Customhouse, Boston, Mass., dredging Kennebunk River; adv. E. N.-R. Feb. 18.

Minn., Hastings — CHANNEL MARKERS — U. S. Eng., 615 Commerce Bldg., St. Paul, ten channel markers on concrete piers about 1 mi. apart in Mississippi River, to Graus Constr. Co., Hastings, $8,470. Noted Jan. 7.

Minn., St. Paul — PIERS — U. S. Eng., 10 rein.-con. piers in Hastings Pool area, to Craus Constr. Co., Hastings, $8,470. Noted Dec. 10.

Miss., Biloxi—NURSES' QUARTERS, etc.—Vet. Bu., Arlington Bldg., Wash., D. C., general contract hospital buildings to National Constr. Co., Tower Bldg., Wash., D. C. $531,932; nurses and officers' quarters at U. S. Veterans' Hospital, to Rogers & Leventhal, Inc., 822 East 11th St., Chattanooga, Tenn., $108,025; plumbing, heating, electrical work, to Bryce Plumbing Co., Florence, S. C., $198,634; refrigerating and ice making plant, to Columbus Iron Wks., Columbus, Ga., $13,948; steel, water tank and tower, to Pittsburgh-Des Moines Steel Co., Neville Island, Pittsburgh, Pa., $7,480; elevator, to Otis Elevator Co., 810 18th St. N. W., Wash., D. C., $20,248. Grand total $880,267. Noted Nov. 12.

Miss., Vicksburg—PONTOONS—U. S. Eng., 2 steel pontoons, to Caldwell Fdry. & Machine Co., 1300 5th Ave. N., Birmingham, Ala., $320.

Mo., Cape Girardeau—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., enlarging, remodeling U. S. Post Office and Court House, to Gerhardt Constr. Co., Cape Girardeau, $16,185. Noted Dec. 31.

N. J., Newark—POST OFFICE, etc.—Mar. 21, by Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing (except elevators and dumbwaiters) U. S. Post Office, Court House; adv. E. N.-R. Feb. 18. Noted Feb. 11.

N. Y., Champlain — INSPECTION SHED — Treas. Dpt. at office Sup. Archt., Wash., D. C., inspection shed, to B. J. Twisdale, Watertown, $34,615. Noted Dec. 31.

N. Y., Oswego—DREDGING, etc.—Mar. 15, by U. S. Eng., Buffalo, 106,045 cu.yd. material other than ledge rock, excavating 140,175 cu.yd. ledge rock in Oswego Harbor; adv. E. N.-R. Feb. 18. Noted Sept. 3.

O., Chillicothe — ELEVATOR — Vet. Bu., Arlington Bldg., Wash., D. C., elevator for U. S. Veterans' Hospital, to Moffatt Mchy. & Mfg. Co., Charlotte, N. C., $5,896. Noted Oct. 22.

O., Troy—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to C. H. Shook, 3rd Natl. Bank Bldg., Dayton, $77,675. Noted Jan. 7.

S. C., Columbia — ELEVATOR — Vet. Bu., Arlington Bldg., Wash., D. C., elevator in U. S. Veterans' Hospital, to Moffatt Mchy. & Mfg. Co., Charlotte, N. C., $18,736. Noted Oct. 15.

Tenn., Memphis — DERRICK — U. S. Eng., Memphis, one 10-ton steel whirler derrick mounted on floating concrete mixing and paving plant, to Clyde Iron Wks. Sales Co., 29th Ave. W. and Michigan St., Duluth, Minn., $10,755. Noted Jan. 7.

Wis., Monroe—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to C. Westburg, 3234 South Oakley Ave., Chicago, Ill., $67,652. Noted Dec. 17.

Wis., Milwaukee—FILTERS—Treas. Dpt. at office Sup. Archt., Wash., D. C., air filters for heating system to Downey Heating Co., 1739 West St. Paul Ave., $10,485 (105 days). Noted Dec. 31.

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RAILWAYS

PROPOSED WORK

Kentucky—Pennsylvania R.R. Co., Broad St. Sta. Bldg., 1617 Pennsylvania, Blvd., Phila., Pa., T. J. Skillman, ch. engr., surveys by F. J. Hoberg, engr. in charge, c/o Pennsylvania R.R. Co., 13th and Market Sts., Louisville, 10 blocks double tracks from Ohio River through 14th to Breckinridge Sts., in Louisville, incl. sidings, switches, to be known as Fourteenth Street Grade Elimination Project. $3,000,000. Cost to be borne by city of Louisville, street railway company and above railroad.

CONTRACTS AWARDED

Calif., Stockton—Belt Line R.R. Co., W. B. Hogan, city mgr., general construction, to Shannahan Bros., Inc., 406 South Main St., $55,035; furnishing ties to Morrison & Knudsen Co., Boise, Idaho, $16,560. All bids for rails rejected, city manager will purchase in open market at price not to exceed $25,000.

GRADE CROSSINGS

PROPOSED WORK

Ky., Louisville — See "Railways" under "Kentucky."

N. Y., Mendon—Lehigh Valley R.R. Co., G. T. Hand, ch. engr., 143 Liberty St., New York, grade separation on Highway 502, Monroe Co. To exceed $25,000. Hearings before Pub. Serv. Comn. to consider plans in progress.

N. Y., North Salem—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, changing bridge over Highway 775. To exceed $25,000. Pub. Serv. Comn. now holding hearings on plans. Noted June 5.

DAMS

BIDS ASKED

Pa., Torrance—See "Waterworks."

PIERS AND WHARVES

PROPOSED WORK

Ont., Windsor—WHARF—See "Warehouses."

AIRPORTS

BIDS ASKED

Tex., Beaumont—Feb. 23, by City Comn., administration building, steel hangar at new municipal airport. $25,000. Irby & Woodside, 1020 Goodhue Bldg., archts.

GRAIN ELEVATORS

PROPOSED WORK

Ont., Windsor—GRAIN ELEVATOR — See "Warehouses."

BIDS ASKED

Wisconsin—Feb. 25, by State Hy. and Unemployment Comns., Madison, Truesdell Overhead, S.A.P. 2845, U. S. Hy. 41, State Trunk Hy. 50, Kenosha Co. Contractor refused job. Noted Feb. 11 under "Contracts Awarded."

Grain Elevator System for Argentina

There has long been agitation in Argentina for a comprehensive grain elevator system. Early in 1931 C. D. Howe of Port Arthur, Ont., studied the matter on the ground and submitted to the government a plan for 600 elevators to cost 150 to 250 millions. This plan has been accepted in principal, and a portion of it is likely to be carried out. The most recent proposal is for 130 elevators of 1,000 to 10,000 tons capacity, totaling 532,000 tons, to be constructed in the provinces of Buenos Aires, Santa Fe, and Cordoba. Financing is of course the chief problem. A new President will be inaugurated Feb. 20, at which time Congress will adjourn until May. Official consideration of the project therefore, is to be expected next June or July.

POWER AND LIGHTING

PROPOSED WORK

California — Southern California Edison Co. Ltd., 601 West 5th St., Los Angeles, program for 1932 involves expenditure of approximately $11,397,000, improvements in 28 districts served by company.

Ia., Marion—See "Factories and Mills."

Kan., Oswego—City, E. S. Nance, clk., municipal gas plant and distribution system. $32,000. Emporia Eng. Co., Emporia, engrs.

Md., Baltimore—H. W. Jackson, mayor, signed ordinance passed by City Council, granting permission to Consolidated Gas Electric Light & Power Co., Lexington Bldg., to construct gas tank, 7,000,000 cu.ft. capacity in Jones Falls Valley sect. of city. An amendment to ordinance provides that plans for gas holder shall be subject to approval of B. L. Crozier, ch. engr. of city.

N. Y., Onondaga—Syracuse Lighting Co South Warren St., Syracuse, applied to Serv. Comn. for permit for gas distributio

CONTRACTS AWARDED

Colorado — Southern Colorado Power Pueblo, improvements on 65 mi. power mission line between Pueblo and La Junta, of $158,000 program for 1932. Owner bu

Man., Gladstone—Manitoba Power Comn. Notre Dame Ave. E., Winnipeg, 20 mi. mission line using 500 Manitoba Jack pine to connect Gladstone with provincial hydro tem. $46,200. Owner builds. Ratepayers in favor of project. Province will pay 75% Dominion 25% of cost. A. Trott, c/o ow engr.

PARKS AND SPORTS

PROPOSED WORK

Ill., Pekin—City Park Bd. plans by G. Wearon, 201 Farm Bureau Bldg., bath h and swimming pool. $100,000.

Kan., Kansas City—Spur & Saddle Club, H. A. Stonbraker, archt., 87th St. and Mis Rd., soon takes bids indoor arena and building, 83rd St. and Mission Rd., in subu $160,000.

Mo., Joplin—Park Bd., L. B. Cook, pr 1504 Main St., soon takes bids 57 x 195 rein.-con. swimming pool. J. B. Hodgdon, engr.

N. J., Atlantic City—Interstate Propert Corp., c/o S. N. Bobo, 551 5th Ave., N York, beach resort and residential devel ment, on 3,000 acres land, Atlantic Oc and Ocean and Burlington Counties line, mi. from here. To exceed $1,000,000.

N. J., Atlantic City—Steeplechase Amusem Park, lessee, Surf Ave., Coney Island, Brookl N. Y., and Atlantic City, plans either new te porary pier or constructing permanent pier replace one destroyed by fire. $500,000. Ma**turity indefinite.** W. Frennan, 123 North B tram Ave., Ventnor, mgr. of pier.

N. Y., Brooklyn—Dpt. Parks, W. R. Herric pres. Park Dpt., Arsenal Bldg., Central Park New York, park, playground improvements, Pro pect Park, vicinity Breeze Hill Bridge. $30,000.

N. Y., New York—T. Altman, c/o Herman Fougner, engr. and archt., 103 Park Ave., preliminary plans 2 story, 116 x 200 ft. swimming pool and natatorium, 121 West 50th St. $125,000.

N. Y., St. George—See "Schools."

CONTRACTS AWARDED

Calif., Culver City—Greyhound Racing Assn. C. H. Carmichael, pres., Hunt Hotel, completed working plans by E. Van den Hoven, 3853 Cardiff Ave., 0.25 mi. dog race course, 7,500 seating capacity grand stand, plaster front, Washington Blvd., day labor and sub-contracts. $150,000.

Conn., New Britain—City, Dpt. P. Wks., purchased 5 acre plot Hartford Rd. and Stanley St extension and will construct swimming pool bath houses, etc., unemployment labor. Noted Jan. 21.

Okla., Oklahoma City—Oklahoma Coliseum Co., c/o J. H. Frederickson, pres., 407 West Main St., general contract 2 story, basement, brick, stone, steel, rein.-con. coliseum, to Bellows Constr. Co., Oklahoma Savings and Loan Bldg. stone, to Algonite Stone Mfg. Co., East Park and Irving Sts.; steel, to Capitol Steel & Iron Wks., 815 South Bway. Total est. $125,000. Noted June 5, 1930.

HEATING AND VENTILATING

BIDS ASKED

N. Y., Pine Aire Station—Mar. 16, by Dpt. Mental Hygiene, State Office Bldg., Albany, heating, sanitary and equipment, kitchen equipment and refrigeration equipment, Dining Room and Kitchen Building 29 and bakery ovens, machinery, etc., and refrigeration equipment. Maintenance and Bakery Building 36, Pilgrim State Hospital; adv. E. N.-R. Feb. 18.

R. I., Providence—J. Conn, 368 Friendship St., taking bids heating and ventilating in theater, store and hotel, Broad, Chestnut and Claverick Sts., est. exceeds $25,000; plumbing, $25,000 or more; electrical work, $25,000. Noted Nov. 12 under "Theatres."

CONTRACTS AWARDED

Me., Gardner—H. Johnson, heating and plumbing in theatre and store building, Water St., to Kelley Bros. Co., 317 Water St.; electrical work, to W. F. Roberts. Est. $25,000. Noted Jan. 28, under "Theatres."

Mass., Wellesley—Wellesley College, C. B. Hodges, supt., heating and ventilating in cooperative dormitory, to Walworth-English-Fleet Co., 81 Commercial Wharf, Boston, est. $25,000; plumbing, to W. H. Mitchell & Son Co., 90 Arch St., Boston, electrical work, to James Wilkinson & Co., 128 Oliver St., Boston, est. $25,000. Noted Dec. 10, under "Schools."

UNCLASSIFIED

PROPOSED WORK

Ia., Dubuque—RIVER COAL TERMINAL—City, J. Stuber, clk., finishing plans 400 x 1,200 ft. river coal terminal, portable conveyors, scale, sea wall, dredging. $150,000. Kanawa-Mississippi Coal Co., lessee. F. B. Schmidt, c/o owner, engr. Noted Dec. 17.

Unclassified (Continued)

N. J., Far Hills — RADIO BROADCASTING STATION—Bamberger Broadcasting Serv., 147 Market St., Newark, radio broadcasting station. To exceed $100,000. Applied for federal permit.

BIDS ASKED

New York—ESCALATOR EQUIPMENT—Mar. 1, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, furnishing, installing passenger escalator equipment at High St.-Brooklyn Plaza Station on Cranberry St., at Smith and 9th Sts., Line B, both Brooklyn Boro; at 145th St. Station on St. Nicholas Ave. Line A, 7th Ave., 5th Ave., and Lexington Ave. Stations on 53rd St., Line D, both Manhattan Boro, all above of Independent System City-Owned Rapid Transit Railroads.

N. Y., Beacon—ELEVATOR—Mar. 8, by Commissioner Dpt. Mental Hygiene, State Office Bldg., New York, electric elevator, laundry and tailor shop building at Matteawan State Hospital; adv. E. N.-R. Feb. 18.

N. Y., Central Islip — REFRIGERATION EQUIPMENT, etc.—Mar. 9, by Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, refrigeration equipment, Dining Room and Kitchen Building, James Group; and electric elevators, in Central Islip State Hospital; adv. E. N.-R. Feb. 18.

N. Y., Pocantico Hills—STABLES, etc.—J. D. Rockefeller, Jr., 26 Bway., bids about Apr. 15, general contract superstructure stables and silo. $150,000. G. Atterbury, 139 East 53rd St., New York, archt. Noted Dec. 31.

N. Y., Poughkeepsie—ELEVATORS—Mar. 16, by Dpt. Mental Hygiene, State Office Bldg., Albany, electric elevators in Buildings 13 and 14, and kitchen and dining room section of same, Hudson River State Hospital; adv. E. N.-R. Feb. 18.

N. Y., Sonyea—ELEVATOR—Mar. 9, by Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, electric elevator, bakery building, Craig Colony; adv. E. N.-R. Feb. 18.

N. Y., Syracuse—ELECTRICAL WORK—Mar. 10, by Commissioner Education, Education Bldg., Albany, electrical work, service connections, Forestry Science and Laboratory Buildings, New York State College of Forestry, Syracuse University; adv. E. N.-R. Feb. 18.

N. Y., Walkill—REFRIGERATORS, etc.—Mar. 8, by Commissioner Dpt. Correction, State Office Bldg., Albany, refrigerators and ice storage room for Medium Security Prison; adv. E. N.-R. Feb. 18.

CONTRACTS AWARDED

Calif., Los Angeles — TRANSIT SHED—City Harbor Dpt., 1 story, 120 x 1,008 ft. transit shed, concrete walls, structural steel, steel sash, steel rolling doors, at Berths 145 and 146, structural steel, to McClintic-Marshall Co., 821 Pacific-Southwest Bldg., $64,250; concrete work, framing and timber, to Stanton-Reed Co., 816 West 5th St., $119,128. Frame and plaster office building also to be erected on site. Total est. $275,000.

Mass., Feeding Hills—QUARRY PLANT—York Hill Trap Rock Quarry Co., State and Brooks Sts., Meriden, Conn., quarry plant, to L. Suzio Constr. Co., 98 State St., Meriden, Conn. Est. $25,000. Noted Jan. 14, under "Contracts Awarded."

N. Y., New York—ESCALATORS—Todd, Robertson & Todd Engineering Corp., 347 Madison Ave., 6 escalators for Radio City, to Otis Elevator Co., 11th Ave. and 26th St., for Metropolitan Square Corp., 61 Bway. Noted Mar. 19.

N. Y., New York—STATION FINISH WORK—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., constructing station finish work 205th St. station of Rapid Transit R.R., Bronx Boro, to Meads Eng. Corp., 217 West 14th St., $53,600. Noted Jan. 21.

Pa., Colona—DOCKS — Pittsburgh & Lake Erie R.R. Co., Terminal Bldg., Pittsburgh, erecting, completing dock, to Dravo Contg. Co., Neville Island, P. O. Pittsburgh. $38,000.

Que., Montreal—COMFORT STATION, etc.—City, comfort station in St. Ann's Ward and shelter at Maisoneuve Market, to R. and E. J. Ryan Ltd., 5647 Park St., $58,765 and $42,632 respectively; bandstand in St. Gabriel Ward, to Leslie G. Ogilvie Ltd., 144 St. Catherines St., $24,925. Grand total $126,322.

Que., Montreal—STABLES—City Executive Comn., stables, Notre Dame de Grace, to A. F. Byers & Co. Ltd., 1226 University St., $64,220.

MATERIALS

PROPOSED WORK

GRANITE EDGESTONES—**Boston, Mass.** — Supply Dpt., P. A. Chapman, supt. rejected bids Feb. 4, granite edgestones as specified. $5,000 or more. Will readvertise. Noted Jan. 28.

BIDS ASKED

OIL or ASPHALT, etc.—**Indianapolis, Ind.**—Feb. 25, by Bd. Park Comrs., City Hall, 100,000 gal. tar oil or cut asphalt, 1,600 cu.yd. coarse grits, 300 cu.yd. sand, 3,000 cu.yd. gravel, 150 cu.yd. crushed stone. $25,000. J. W. Joseph, c/o owner, pres.

CEMENT, OILS, etc.—**Corning, Ia.**—Mar. 1, at office Auditor Adams Co., cement, gasoline, oils, greases.

CULVERT PIPE, SPIKES, etc.—**Onawa, Ia.**—Feb. 22, at office Auditor Monona Co., 4 cars corrugated culvert pipe, 3 tons spikes, 70,000 gal. gasoline, 1 car oil and grease.

PLANK, PILING, etc.—**Waterloo, Ia.**—Feb. 29, by F. W. Esher, aud. Black Hawk Co., 1 carload asphalt plank, 1 carload treated lumber and piling, 5 carloads Class "D" Douglas fir, 9,296 lin.ft. corrugated metal culvert pipe, 75,000 gal. 58-60 U. S. motor gasoline, 12,500 lb. grease, 65 lb. lubricating oil, miscellaneous hardware.

FLOORING, PILING, etc.—**Shreveport, La.**—Mar. 1, by J. T. Bullen, engr., Shreveport, 42,272 ft. B.M. flooring 9,856 b.m. stringers, 4,800 ft. b.m. caps, 4,609 ft. b.m. wheel guards, 2,472 lin.ft. piling for Caddo Parish Police Jury.

STEEL WATER PIPE—**Newton, Mass.**—Feb. 25, by Metropolitan Dist. Comn., Water Div., 20 Somerset St., Boston, 9,200 lin.ft. steel water pipe, 60 in. nominal diam. and appurtenances, connections.

ROAD OIL—**Minneapolis, Minn.**—Feb. 25, by F. S. Gram, city purch. agt., 3,000,000 gal. road oil. Former bids rejected.

ROAD OIL—**St. Paul, Minn.**—Feb. 23, by C. A. Carolson, city purch. agt., 2,100,000 gal. road oil; 400,000 gal. cutback asphalt; 6,000 gal. emulsified asphalt; 400 tons asphaltic cement, 50 tons asphaltic brick filler; 500 tons trap rock; 60 tons trap-rock chips; 500 tons limestone binder; 2,500 tons buckshot gravel; 4,000 tons special road surfacing gravel; 500 tons trap rock screenings; 4,000 cu.yd. concrete sand; 3,000 cu.yd. coarse and 3,000 cu.yd. fine asphalt sand; 500 cu.yd. cushion sand; 1,400 bbl. portland cement; 6,000 sq.ft. vitr. liner plates for sewer, sewer castings. W. N. Carey, city engr.

ROAD OIL—**Winona, Minn.**—Mar. 9, by A. Baeuerlen, aud. Winona Co., 175,000 gal. road oil.

GRAVEL, CULVERT PIPE, etc. — **Meridian, Miss.**—Mar. 8, by Bd. Supervs. Lauderdale Co., M. Cameron, chancery clk., 6 months' supply road gravel, culvert pipe, etc.

STEEL PIPE, etc.—**Bayonne, N. J.**—Feb. 23, by Bd. City Comrs., City Hall, furnishing, delivering 42 in. x ⅜ in. spiral wrapped steel pipe, two 42 x 30 x ⅜ spiral wrapped steel pipe reducers, at Hudson Bldv. and Morris Canal, $5,000. W. Clarkson, city engr.

ASPHALT SAND, etc.—**New York, N. Y.**—Feb. 24, by S. Levy, pres. Manhattan Boro. Municipal Bldg., 15,000 cu.yd. asphalt sand, 8,000 cu.yd. ¾ in. binder stone, 700,000 gal. asphaltic cement.

PIPE, etc.—**New York, N. Y.**—Feb. 23, by J. G. W. Greeff, comr. Hospitals, Municipal Bldg., pipe, valves, fittings.

WROUGHT IRON PIPE, etc.—**North Carolina**—Feb. 23, by Div. Purchase and Contr., Raleigh, 3,200 lin.ft. 2 in. w.i. pipe, f.o.b. Washington; 7,000 galvannealed steel sheets, 24 x 24 x 18 in. gage, accurately mill sheared, commercially flat, free from waves and buckles, full 18 gage, f.o.b. Raleigh; 780 steel bars, f.o.b. Raleigh.

SLAG — **East Canton, O.** — Feb. 24, by G. Dewalt, village clk., 500 tons, more or less slag at stipulated price per ton, to be delivered at slag owner's plant to driver of said village at various intervals when slag is needed.

CONTRACTS AWARDED

PIPE—**Pacific Grove, Calif.**—City Council, 4,600 ft. 6 in. Class B B and S c.i. pipe in 12 ft. lengths, to U. S. Pipe & Fdry. Co., Monadnock Bldg., San Francisco, at $0.475 per ft.

CEMENT—**Illinois**—Illinois State Hy. Dpt. through H. Cleveland, dir. Pub. Wks. & Buildings at office Div. Purchase and Supplies, Springfield, 2,500,000 bbl. portland cement, to Marquette Cement Mfg. Co., Oglesby; 700,000 bbl., to Alpha Portland Cement Co., La Salle, same company will furnish 600,000 from its mill at Alpha, Mo.; 166,000 bbl., to Dewey Portland Cement Co., Union Bank Bldg., Davenport, Ia.; 136,000 bbl., to Missouri Portland Cement Co., 1010 Pine St., St. Louis, Mo. Above at $1.44 per bbl.

CEMENT—**Indiana**—State Hy. Comn., Indianapolis, 200,000 bbl. cement, to Marquette Cement Co., La Salle, Ill., 25,000 bbl., to Kosmos Cement Co., Kosmosdale, Ky.; 175,000 bbl., to Wabash Cement Co., Stroh; 420,000 bbl., to Louisville Cement Co., Speeds; 500,000 bbl., to Lone Star Cement Co., Greencastle; 420,000 bbl., to Lehigh Cement Co., Mitchell. Total cost $1,800,000. Total est. $2,200,000. Noted Jan. 14.

CULVERT PIPE—**Elkader, Ia.**—Clayton Co., to Wheeling Corrugating Co., 100 Southwest 2nd St., Des Moines, corrugated culvert pipe for use during 1932 as follows: 2,500 ft. 15 in. at $0.69 per ft., 1,500 ft. 24 in. $0.93, 300 ft. 30 in. $1.60, 800 ft. 36 in. $1.94, all f.o.b. Elkader. Noted Jan. 28.

LUMBER, etc.—**Primgher, Ia.**—O'Brien Co., 4 cars untreated lumber, 2 cars yellow pine piling, 1 car cypress piling, to Wheeler Lumber Bridge & Supply Co., 606 Hubbell Bldg., Des Moines, $7,732; 3,600 ft. culvert pipe, to Sibley Cement Co., Sibley, $1,267. Noted Jan. 21.

CULVERT PIPE—**Vinton, Ia.**—Benton Co., to Iowa Culvert & Pipe Co., Mason City, 4,500 ft. 15 in. corrugated culvert pipe at $0.60 per ft., 2,000 ft. 18 in. $0.83, 750 ft. 24 in., $1.19, 165 ft. 30 in. $2.05, 33 ft. 42 in. $2.95. Noted Jan. 21.

WROUGHT IRON PIPE—**Lynn, Mass.**—City Clerk, to N. E. Pipe & Supply Co., 6 Dane St., Somerville, 10,000 ft. 1 in. genuine w.i. water pipe at $11.74 per 100 ft.; 10,000 ft. 1¼ in. $15.88; 1,000 ft. 1½ in. $17.97; 1,500 ft. 2 in. $24.12; 300 ft. 3 in., $54.94.

SEWER PIPE, etc—**Salem, Mass.**—City, Purchasing Agent, City Hall, vitr. sewer pipe as specified, to Pitman & Brown, 11 Washington St.; sand and gravel as specified, to J. P. Langmaid & Sons, 311 Derby St.; edgestones, to H. E. Fletcher Co., West Chelmsford. Est. exceeds $5,000.

GATE VALVES—**Minneapolis, Minn.**—City—F. S. Gram, city purch. agt., to Columbian Iron Wks., 2501 Chestnut St., Chattanooga, Tenn., forty 6 in. gate valves at $16.10 each, ten 8 in $25.50, ten 12 in. $47.40, six 16 in. $121.30, twelve 24 in. $287.50; to Chapman Valve Mfg. Co., Indian Orchard, Mass., six 30 in. flanged gate valves, at $501 each; to Rensselaer Valve Co., Monadnock Bldg., Chicago, Ill., five 36 in. flanged gate valves at $860 each; four 42 in. $1,220.

SEWER PIPE—**Minneapolis, Minn.**—F. S. Gram, city purch. agt., Municipal Bldg., concrete sewer pipe for 1932 season, to Massey Concrete Products Corp., 2429 N. E. Bway., Minneapolis, and Elk River Concrete Products Co., 712 Builders Exch. Bldg. Noted Jan. 26.

LIGNUM BINDER—**Mount Holly, N. J.**—Burlington Co., Court House, lignum binder, to M. R. Young, Fisher Pl., Trenton, at $0.1212 per gal.; broken stone, to Delaware River Quarry & Constr. Co., Lambertville, at $0.90 per ton; cut back asphalt, to Headley Emulsified Products Co., Franklin Trust Bldg., Phila., Pa., at $0.14145 per gal.; slow curing oil, to Franklin Contg. Co., 20 Washington Pl., Newark, at $0.0799 per gal.; gas tar, to T. Tobish, 52 West State St., Trenton, at $0.134 for cold and $0.153 for hot; pebbles, to National Supply Co., Mount Holly, at $0.85 per ton; creosoted lumber, to Atlantic Creosoting Co., 17 Battery Pl., New York, $7,516.

CABLE—**Milwaukee, Wis.**—City, J. W. Nicholson, purch. agt., paper insulated cable, to J. A. Roebling Sons, 2853 North Sherman St., $19,971.

EQUIPMENT

PROPOSED WORK

TRANSFORMERS—**Anderson, Ind.**—City Bd. P. Wks. purchasing new transformers for municipal power plant. $20,000.

LICENSE PLATES—**Salem, Ore.**—State, R. C. Holmes, treas., soon takes bids 1,500,000 sets automobile license plates.

POWER PLANT EQUIPMENT—**Wahpeton, N. D.**—Otter Tail Power Co., Fergus Falls, Minn., G. W. Welch, ch. engr., installing new power plant equipment, incl. 7,500 kw. steam turbine.

BIDS ASKED

ELECTRIC HOIST—**Boston, Mass.**—J. Dimare, 44 Hale St., in market ½ ton electric hoist.

ELECTRIC HOIST—**Somerville, Mass.**—P. H. B., 52 Tufts St., in market ½ ton electric hoist.

PUMPING EQUIPMENT — **Woburn, Mass.** — Mar. 1, by Superintendent P. Wks., City Hall, pumping equipment, etc., at Horn Pond Pumping Station. $5,000 or more. Metcalf & Eddy, Statler Bldg., Boston, engrs.

GRADERS—**Ada, Minn.**—Mar. 2, by A. Elleraas, aud. Norman Co., one or more motor patrol graders, 12 ft. and 14 ft. blades.

ROAD MAINTENANCE MACHINERY — **Fargo, Minn.**—Mar. 3, by F. F. Doherty, aud. Cass Co., road maintenance machinery, incl. trucks.

TRACTOR—**Nashwauk, Minn.**—Feb. 23, by X. E. Luiten, town clk., 50-60 hp. one crawler-type tractor.

PATROL GRADER—**Red Lake Falls, Minn.**—Mar. 2, by G. Dupont, aud. Red Lake Co., motor patrol grader. R. W. Tollefson, co. hy. engr.

OPERATING EQUIPMENT—**Flushing, N. Y.**—Feb. 25, by A. Goldman, comr. Plant & Structures, Municipl Bldg., New York, improving operating equipment of Roosevelt Ave. Bridge over Flushing River.

CORPORATION COCKS—**New York, N. Y.**—Feb. 24, by M. F. Kenny, deputy and acting comr. Purchase, Municipal Bldg., corporation cocks and hydrant parts to Dpt. Water Supply, Gas & Electricity.

GALVANIZED WROUGHT IRON PIPE, etc.—**Canton, O.**—Feb. 23, by C. S. Bolender, dir. P. Serv., galvanized wrought iron pipe, galvanized malleable fittings, curb and corporation cocks, curb and valve boxes.

TRUCK—**Duryea, Pa.**—Mar. 7, by Boro Council, 6-cylinder hydraulic dump truck.

CRANE—**Brookings, S. D.**—City Council in market traveling crane. A. O. Bortnem, city aud.

CONTRACTS AWARDED

TURBINE PUMP—**Rockford, Ill.**—Sanitary Dist. of Rockford, 401 East State St., turbine deep well pump, to Swords Bros., Rockford, Est. $3,247. Noted Jan. 21.

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Equipment (Continued)

MANHOLE FRAMES, etc.—**Baltimore, Md.**—Bd. Awards, furnishing, delivering manhole frames and covers to Bureau Water Supply to American Brake Shoe & Fdry. Co., 723 South Caroline St., $6,085. Noted Jan. 28 under "Waterworks."

GENERATOR, etc.—**Schuyler, Neb.**—City, A. MacKenzie, clk., 750 kw. turbo-generator and switchboard, to General Electric Co., 610 Electric Bldg., Omaha, $19,000 and $323 respectively; condenser and miscellaneous equipment, to Elliott Co., 624 Union State Bank Bldg., Omaha, $5,785; superheaters, to Foster Wheeler Corp., 20 North Wacker Dr. Chicago, Ill., $3,275; steam flow meter, to Bailey Meter Co., 407 Coca Cola Bldg., Kansas City, Mo., $379. Grand total $28,762. Noted Feb. 4.

FOREIGN

England, London—Owner, c/o Ponds Extract Co., lessee, 131 Hudson St., New York and London, soon builds cosmetic manufacturing plant, 25,000 sq.ft. floor space by general and separate contracts. To exceed $40,000.

Italy Mestre—Distillazione Italiana Conbustibili, Mestre, awarded contract for design and construction refining unit (pressure distillate rerun unit), to Arthur G. McKee & Co., 2422 Euclid St., Cleveland, O. To exceed $1,000,000.

Morocco—Minister of Public Instruction, Madrid, plans extensive program public school instruction, in Spanish Morocco. To exceed $1,000,000.

New Zealand, Wellington—Mar. 1, by Secretary Pub. Wks., Supplies & Tenders Com., supplying 3,750 tons asphalt.

Commercial Buildings

RESIDENTIAL

BIDS ASKED

Mass., Cambridge—H. M. Goldberg, 393 Bway., taking bids 4 story, basement, brick, stone, steel, plain found., Bway. $200,000. M. Waters, 24 School St., Boston, archt. S. B. Elwell, 45 Newbury St., Boston, associate archt.

N. J., Lyndhurst—See "Contracts Awarded."

N. J., Montclair—See "Contracts Awarded."

N. Y., Brooklyn—See "Contracts Awarded."

N. Y., New York—Randik Realty Co., 206 Lexington Ave., bids in fall general and separate contracts hotel and store. $2,000,000. Project delayed by lack of financing. S. A. Hertz, 15 West 38th St., archt. Noted May 28.

N. Y., New York—Henry Mandel, 10 East 40th St., bids in Auguust or later separate contracts, 196 7th Ave. $1,000,000. Farrar & Watmough, 10 East 40th St., archts. Noted Jan. 29 under "Contracts Awarded."

N. Y., New York—G. A. Plimpton, Plimpton House Corp., 70 5th Ave., plans by Malcolm, McGregor & Kildruff, c/o owner, and takes bids in fall or later general and separate contracts, 20 story, Park Ave. and 38th St. $1,000,000. Noted May 28.

N. Y., New York—Rayon Holding Corp., F. Brown, 565 5th Ave., bids in August, general or separate contracts apartment hotel, 432 Central Park West. $4,000,000. Work will proceed when financing is arranged. Noted May 28.

N. Y., White Plains—Gedney North, Inc. 2644 Bway., New York, plans by H. T. Jeffery, 90-50 Parsons Blvd., Jamaica, residential development, Barbara Knolls. $1,000,000.

N. Y., Woodside—See "Con :acts Awarded."

Pa., Phila.—O. Stemacker, 3958 North 5th St., taking separate bids 10 story, basement, 100 x 150 ft., rein.-con., brick, steel plain found., Lincoln Dr. and Wissahickon St. Private plans.

CONTRACTS AWARDED

Ill., Chicago — Albert W. Swayne Building Corp., 520 North Michigan Ave., G. N. Simpson, pres.; and McNally & Quinn, archts., 10 South La Salle St., (Sect. 2) 22 story, basement, concrete, rein.-con., brick, cooperative apartment, plain found., to A. W. S. Constr. Co., 520 North Michigan Ave. Plans Sects. 3 and 4 later. Total est. $1,400,000. Noted Jan. 28.

Ill., Chicago—Syndicate, c/o S. Minchin, c/o G. C. Nelson Building Constr. Co., general contractors, 211 West Wacker Dr., 16 story, basement 30 x 42 ft. with two 28 x 70 ft. wings, rein.-con., brick, caisson found., 1228 North State St. General contractor taking bids on sub-contracts. Est. $300,000.

N. J., Lyndhurst—J. Van Eyk, 374 Forest Ave., 4 story, basement, brick, steel, Maple St., separate contracts. $150,000. **Maturity in March.** L. Vivoli, 593 Palisade Ave., Grantwood, archt.

N. J., Montclair—J. Smith, 78 North Fullerton Ave., 5 story, basement, brick, steel, Fullerton Ave., separate contracts. $150,000. M. Kraut, 3010 Hudson Blvd., Jersey City, archt.

N. Y., Brooklyn—J. B. Bindler, 1432 Schenectady Ave., 2 story, Clarendon Rd. and East 5th St., separate contracts. To exceed $510,000. I. Kirshenbilt, 1125 Eastern Parkway, archt.

N. Y., Brooklyn—M. Hankin, 372 East 46th St., 4 story, East 53rd and Winthrop Sts., separate contracts. $150,000. I. Kirshenbilt, 1125 Eastern Parkway, archt.

N. Y., New York—L. Gold, 50 East 42nd St., acreage development, landscaping and residential development, northern part Bronx, separate contracts. To exceed $1,000,000. Noted Feb. 9 Daily.

N. Y., Woodside—Curtis X. Mathews, 53-05 Roosevelt Ave., apartment, 79th St. and Catamus Ave., separate contracts. $170,000.

Ont., Hamilton—R. C. Dewey Co., c/o Mackie & Mackie, 42 James St., 6 story, basement, 66 x 135 ft., rein.-con., marble, tile, terrazzo, King St., to Fred Constr. Co., 129 King St. E. Est. $200,000.

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CLUBS

PROPOSED WORK

Kan., Kansas City—See "Sports and Parks."

N. J., Paterson — Workmen's Circle Labor Lyceum Corp., c/o Goodman & Schulman, archts., 20 Smith St., rejected bids 2 story, basement, brick, steel club house, Carroll St. and 12th Ave. $150,000. Will go ahead with smaller project if funds are available. Noted Dec. 10.

BIDS ASKED

N. J., New Brunswick—A. Merchant, archt., 1 Elm Row, bids about Feb. 15, general contract 2 story, basement, brick, steel addition, Livingston Ave., for B.P.O.E. 324, 40 Livingston Ave. $150,000. S. Shaw & Co., 24 Commerce St., Newark, engrs. Noted Feb. 2.

O., Cleveland—West Side Masonic Temple Co., c/o J. Cox, pres., c/o Cleveland Railway Co., Midland Bank Bldg., taking bids 2 story, basement, 80 x 120 ft. limestone, steel, concrete mason temple, Franklin Circle. $200,000. C. W. Hopkinson, Rose Bldg., archt. Noted Jan. 24.

HOSPITALS

PROPOSED WORK

California—State of California, Capitol Bldg., Sacramento, will announce within few months location for State Insane Hospital in southern California. $1,440,000. It has not been determined whether private architect will be retained to draw plans or project be handled by State Architect, Sacramento.

N. J., Irvington — General Hospital, 832 Chancellor Ave., new sketches by G. Higby, 32 Walnut St., Newark, 4 story, basement, brick, steel hospital addition. $250,000.

Pa., Torrance — Commonwealth of Pennsylvania, C. R. McKinnis, supt. Torrance State Hospital, rejected bids Jan. 13, 1 story, brick, steel hospital, dining room and kitchen, on institution grounds. $173,618. B. H. Prack, 119 Federal St. N. S. Pittsburgh, archt. Noted Jan. 7.

Vt., Burlington — Mary Fletcher Hospital, T. S. Brown, 419 South Prospect St., sketches by McKim, Meade & White, 101 Park Ave., New York, reconstructing hospital. **Maturity in summer or later.** Noted Dec. 4.

S. C., Moncks Corner—Berkley County Hospital Assn., Inc., plans by F. A. Hazard, Augusta, Ga., 1 and 2 story, basement, L-shaped, 258 x 50 x 166 x 50 x 128 ft., rein.-con., structural steel, brick, hollow tile hospital.

BIDS ASKED

Ind., Indianapolis—Mar. 9 (extended date), by Indiana Insane Hospital, 3000 West Washington St., 3 story, basement, rein.-con., brick, stone men's building at Central State Hospital, 3000 West Washington St. $175,000. McGuire & Shook, Fletcher Trust Bldg., archts. Bevington-Williams, Pythian Bldg., engrs. Noted Jan. 14.

Mass., Boston—New England Deaconess Hospital, W. S. Cook, supt., bids about Feb. 25, 3 story, basement, brick, stone hospital addition, plain found., Deaconess Rd. $150,000 or more. Coolidge, Shepley, Bulfinch & Abbott, Ames Bldg., archts. Noted Oct. 1.

CONTRACTS AWARDED

N. Y., Creedmoor—Agostini Bros., contractors, 205 East 42nd St., New York, awarded contracts structural steel for Brooklyn State Hospital Creedmoor Div., for Dpt. Mental Hygiene, State Office Bldg., Albany, to Easton Structural Steel Co., 801 2nd St., New York, concrete, to Merit Concrete Corp., 55 West 42nd St., New York; excavation, to Jay Simpson, Jamaica; finish hardware, to P. and F. Corbin, 101 Park Ave., New York, masonry not awarded, contractor may do same by day labor. Noted Dec. 10, under "Contracts Awarded."

N. Y., Kings Park—Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, completing reception building, employees' home, Kings Park State Hospital, to Acampora Bros., 14 Spencer Pl., Mamaroneck, $176,800. Noted Dec. 31.

O., Cincinnati—Hamilton Co., 2 story, ba ment, 49 x 264 ft., new children's T.B. P ventorium, brick, rein.-con., plain found., to and E. Warm Co., Ingalls Bldg., $190,40 Noted Jan. 7.

CHURCHES

PROPOSED WORK

Conn., Montville — Memorial Union Bapti Church, R. J. Bates, pastor, refiguring bids and 2 story, 55 x 75 ft., stone church. Payne & Keefe, 231 State St., New London, archts. Not Jan. 14.

N. J., Newark—St. George Greek Catholi Church, G. N. Kandro, pastor, 89 Astor St., an D. J. Scrocco, archt., 60 Park Pl., soon lets general contract 2 story, basement, brick, st church and rectory, Warwick and Lang St $150,000. F. Nagy & Associates, Bethlehem Pa., assoc. archts. Noted Feb. 11.

N. J., Newark—P. C. Reilly, archt., 111 5th Ave., New York, soon lets general contract story, basement, brick, steel, 16th Ave. and 7th St., for St. Ann's Roman Catholic Church, 16th Ave. $250,000.

N. J., Newark—E. Gerber, archt., 364 White St., Orange, bids about August on revised plans 3 story, basement, brick, steel, synagogue, for Owner, c/o architect. $250,000. Noted Sept. 17.

N. J., Vineland — First Methodist Episcopal Church, G. S. Johnson, pastor, rebuilding story, basement, brick, steel church. $150,000. **Maturity indefinite.** Architect not appointed.

N. Y., Tottenville — Congregational Ohaves Israel and The Tottenville Hebrew Institute, J. S. Salmirs, pres., 2 story, basement, brick, steel synagogue. $150,000. **Maturity indefinite.** Architect not appointed.

N. C., Winston-Salem — First Presbyterian Church, c/o S. Clay Williams, chn., plans by Northup & O'Brien, Reynolds Bldg., 2 story, 80 x 110 ft., brick, tile, rein.-con., steel, granite, terra cotta, limestone, marble, Sunday school. $160,000.

O., Barberton—Holy Trinity Roman Catholic Church, A. Kovacs, pastor, 368 Wooster Rd., soon lets contract 2 story, basement, 32 x 110 ft., brick, steel, concrete church, school. $150,000. Walsh, Katonka & Miller, 11623 Buckeye Rd., Cleveland, archts.

BIDS ASKED

Mass., East Millbury — Raymond Memorial Assn., taking bids 1 story, basement, brick, stone church, plain found., $150,000. E. T. Chapin, 340 Main St., Worcester, archt.

Wis., Waupaca—St. Mary Magdalen Congregation, A. O. Rieland, pastor, and Foeller & Schober, archts., Pine St., Green Bay, taking bids 2 story, 60 x 100 ft., rein.-con., brick church. Noted Dec. 10.

CONTRACTS AWARDED

Ill., Chicago—Catholic Bishop of Chicago, 719 North Wabash Ave., St. Andrews Roman Catholic Church, A. Griffin, pastor, 3 story addition, also moving present church, to W. J. Lynch Co., 844 Rush St. Est. $155,000. **Maturity in spring.** Noted Feb. 4.

N. J., West Orange—Myers & Shanley, archts., 24 Walnut St., Newark, general contract 1 story, basement, boiler room, 55 x 110 ft. brick, steel church, Benvenue Ave., for St. Joseph's Church, c/o Roman Catholic Dioceses Newark, Newark, to M. Byrnes Bldg. Co., 430 Westfield Ave., Elizabeth; plumbing and heating, to J. E. Joyce, 84 South 6th St., Newark; electrical work, to Burd Electric Serv., Inc., 12 Main St., Millburn. Est. $150,000. Noted Feb. 11.

SCHOOLS

PROPOSED WORK

Conn., Greenwich—Town, J. W. Curtiss, Bd. Educ., soon takes bids 2 story, basement, brick high school addition, Field Point Rd. $150,000. Guilbert & Betelle, Chamber of Commerce Bldg., Newark, N. J., archts. Noted Nov. 12.

Ill., Wheaton—Sisters of St. Francis, A. Epstein, pastor, 314 Willow Ave., plans by R. H. Salidbury, Wheaton, St. Michaels School and Convent, 3 story, basement, 50 x 95 ft., rein.-con., concrete, brick, stone. $150,000. Preliminary bids in. **Maturity in fall.**

Ind., Crawfordsville — Wabash College plans by J. F. Larson, Hanover, N. H., 2 story, basement, rein.-con., steel, brick college building, science hall, on campus. $250,000.

Ind., Ft. Wayne—School Comrs., plans by C. J. Carlson, 2601 Kensington St., 2 story, basement, brick, steel, stone high school addition, Montgomery St. $150,000.

La., Baton Rouge—Louisiana State University plans by Weiss, Dreyfous & Seiferth, Maison Blanche Bldg., New Orleans, girls' dormitory, field house, recreation center and fine arts building.

Mass., Worcester—Commonwealth of Massachusetts, State Dpt. Educ., State House, Boston, dormitory at State Normal School. $150,000. Architect not appointed.

N. J., Cliffside Park—Bd. Educ., Palisade Ave., 2 story, basement, brick, steel addition to School 3. $150,000. Bond election soon. **Maturity soon.** Architect not appointed.

Schools (Continued)

N. J., Hillside—Bd. Educ., H. Doremus, pres., bids about April, general contract 2 story, basement, brick, steel school. $150,000. Taxpayers vote on bond issue soon. J. Wind, Jr., 1450 North Broad St., archt. Noted Dec. 17.

N. Y., Jamaica—Bd. Educ., 500 Park Ave., New York, plans by W. C. Martin, Flatbush Ave. extension and Concord St., Brooklyn, 89 x 182 ft. school, 108th Ave. and 155th St. $255,000.

N. J., Jersey City—Bd. Educ., Administration Bldg., new sketches by J. T. Rowland, Jr., 30 Journal Sq., School 38, 2 story, basement, brick, steel, rein.-con. Hudson Blvd. $185,000. Noted Oct. 22.

N. J., Newton — Missionary Fathers-Little Flower Monastery, 2 story, basement, brick, steel missionary training school. $150,000. **Maturity soon.** Architect not appointed.

N. J., Paterson—Bd. Educ., City Hall, 3 story, basement, brick, steel, rein.-con. school, Eastside Dist. $150,000. **Maturity soon.** Architect not appointed.

N. J., Piscatawaytown—Bd. Educ. Raritan Twp. general contract bids in May on revised sketches 2 story, basement, brick, steel, rein.-con. addition to Oak Tree School. $175,000. Jensen & Rasmussen, 216 Smith St., Perth Amboy, archts. Noted Nov. 19.

N. Y., Hempstead—Bd. Educ., 70 Greenwich St., new sketches by E. Sibley, 1034 Edgewood Lane, Palisade, N. J., altering and constructing 2 story, basement, brick, steel addition to Jackson School, 311 Jackson St.; altering and constructing 2 story, basement addition to Ludlum School, 115 William St.; altering and constructing 2 story, basement, brick, steel, rein.-con. addition to Washington School, 270 Washington St. $150,000 each. **Maturity indefinite.**

N. Y., New York—Bd. Educ., 500 Park Ave., P. S. 100, Stadium Ave., Polo Pl., and Country Club Rd. $255,000.

N. Y., St. George—Bd. Educ., 500 Park Ave., New York, plans by W. C. Martin, Flatbush Ave. and Concord St., Brooklyn, 3 story, basement, brick, steel addition to Curtis High School, incl. swimming pool, Hamilton Ave. and St. Marks Pl. $800,000. Bids as soon as funds are available.

Pa., Phila.—Girard College, Girard Ave., soon lets contract 2 story, basement, 70 x 102 ft., and 60 x 106 ft., steel, marble, limestone library, Girard Ave. and Corinthian St. $400,000. E. L. Tilton, 420 Lexington Ave., New York, archts. Noted Sept. 3.

Pa., Pittsburgh—Bd. Educ., H. W. Cramblet, secy., Administration Bldg., plans by R. M. Trimble, 709 Ferguson Bldg., and bids in March, William M. Davidson High School, 3 story, basement, 60 x 223 ft., with 40 x 170 ft. wing, brick, limestone, incl. cafeteria, auditorium, gymnasium, West Liberty Ave. $600,000. C. L. Wooldridge, Inc., Fulton Bldg., engrs. Noted Jan. 21.

Pa., Pottstown—Bd. Educ., F. C. E. Malhouse, secy., 851 North Evans St., rejected bids Jan. 8, Junior High School, 3 story, basement, 297 x 323 ft., rein.-con. brick. Will readvertise. Hasness & Albright, 213 Walnut St., Harrisburg, archts.

Tex., Longview — Bd. Educ., c/o Secretary, Longview, rejected bids general contract Senior High School, 3 story, 145 x 183 ft., brick, steel, rein.-con., hollow tile. $130,000. M. Lemmon, 1910 Tower Petroleum Bldg., Dallas, archt. R. O. Jameson, South Western Life Bldg., Dallas, structural engr. Noted Dec. 17.

P. E. I., Charlottetown—Governors and Senate of Prince of Wales College rebuilding, stone-faced, rein.-con., steel college. $350,000. Architect not appointed. D. S. N. Robertson, principal.

BIDS ASKED

Mass., Jamaica Plain—Feb. 25, by City of Boston, Dpt. School Buildings, 2 story, basement, brick, stone intermediate school, plain found., Walk Hill St., Francis Parkman Dist. $150,000. J. F. Cullen, 162 Newbury St., Boston, archt. Noted July 30.

N. J., Hackensack—Bd. Educ., 355 State St., bids Apr. 15, School 2, 2 story, basement, brick, steel, Union and Meyer Sts. $150,000. A. E. Dore, 15 Main St., archt. Noted Dec. 17.

N. J., Jersey City—Bd. Educ., H. F. O'Mealia, pres., Administration Bldg., bids about Apr. 27, Senior High School, 4 story, basement, brick, rein.-con., steel, Hudson Blvd. and Culver Ave., at Educational Centre. $2,000,000. J. T. Rowland, Jr., 30 Journal Sq., archt. Noted Sept. 10.

N. J., Lodi—Bd. Educ., A. Cody, pres., Union St., bids Feb. 29, Junior and Senior High School, 2 story, basement, brick, steel, Westervelt Pl. between 1st and Parks Sts. $340,000. F. Pirrone, 104 Midland Ave., Garfield, archt. Noted Dec. 3.

N. J., Madison—Bd. Educ., G. F. Sutherland, pres., High School, bids about Apr. 1, 2 story, basement, brick, steel, rein.-con. high school addition, Main St. $150,000. Guilbert & Betelle, 20 Branford Pl., Newark, archts. Noted Oct. 15.

O., Oberlin—Oberlin College, E. H. Wilkens, pres., taking bids 3 story, basement, 45 x 180 ft., brick, steel, concrete dormitory. $200,000. Private plans.

R. I., Providence—St. Charles Boromeo Roman Catholic Church, bids about Feb. 24, 2 story, basement, brick, stone, parochial grade school, plain found. $150,000 or more. W. F. Fontaine, 285 Main St., Woonsocket, archt. Noted Feb. 4.

Tex., Dallas—Feb. 23, by Bd. Educ. (1st unit) Junior High School, brick, rein.-con. terra cotta, steel, rein.-con. found, Trinity Heights. $250,000. M. Lemmon, 1910 Tower Petroleum Bldg., archt., R. O. Jamison, South Western Life Bldg., engr. Noted Jan. 7.

CONTRACTS AWARDED

Calif., Fresno—State Dpt. P. Wks., Sacramento, general contract brick library at State Normal School, to H. Mayson, 9315 South Hooper Ave., Los Angeles, $123,953; heating and ventilating, to T. Haverty, 8th and Maple Sts., Los Angeles, $14,759; plumbing, to J. A. Fazio, 402 Castro St., Oakland, $3,230; electrical work, to Gilbert Bros., 286 West Santa Clara St., San Jose, $16,300. Grand total, $158,242. Noted Jan. 21.

Del., Lewes—State School Building Comn., H. V. Holloway, supt., Dover, general contract 2 story, basement, brick, steel school addition, plain found., to A. L. Lauritsen, Du Pont Bldg., Wilmington; plumbing and heating, to John Borden & Bros., 637 North 19th St., Phila., Pa.; electrical work, to Electric Contg. Co., 111 West 8th St., Wilmington. Est. $150,000. Noted Jan. 28.

Md., Baltimore—Smith & May, archts., Baltimore Trust Bldg., 2 story, basement, 60 x 200 ft. school, York Rd., 2½ mi. north of Parkton, to Frainie Bros., 19 West Franklin St., $150,000; 2 story, basement, 122 x 140 ft. school, Whitehouse Rd. near Blackstone Rock, to Cogswell Contg. Co., 406 Park Ave., $150,000, both local stone, brick, for Bd. Educ., Baltimore Co., Lexington Bldg. Noted Jan. 21.

Mass., Cambridge—City, School Comn., and R. H. Doane, archt., 60 Batterymarch St., Boston, Rindge Technical High School, 5 story, basement, brick, stone, concrete, concrete found., to Geo. A. Fuller Co., 11 Beacon St., Boston. Est. $1,500,000. Noted Dec. 24.

Mass., Mittineague—St. Thomas Parish, J. W. Dolan, pastor, 20 Pine St., 2 story, basement, brick, stone school, assembly hall, plain found., to D. O'Connells Sons, Inc., 480 Hampden St., Holyoke. Est. $150,000. Noted Aug. 6.

Mass., Wellesley—Wellesley College, c/o W. T. Aldrich, archt., 30 Newbury St., Boston, 4 story, 120 x 180 ft., brick, steel dormitory, to Somers & Drisko, 120 Boylston St., Boston. Est. exceeds $150,000. Noted Dec. 10.

N. J., Pompton Lakes—Bd. Educ., T. J. Hutton, dist. clk., 96 Perrin Ave., general contract Senior High School, 2 story, basement, brick, steel, to R. J. Murphy, Inc., 55 West 42nd St., New York, $208,950; heating, to D. Buist & Son, Inc., 178 George St., New Brunswick, $38,950. General contractor taking bids on materials and sub-contracts. Noted Feb. 4, under "Contracts Awarded."

N. Y., Aurora—Wells College, administration building, to Hegeman Harris Co., 360 Madison Ave., New York. Est. $500,000. Contractor now taking bids on separate contracts. Noted Jan. 14.

N. Y., Syracuse—Commissioner Dpt. Educ., Education Bldg., Albany, completing Forestry Science Building, Syracuse University, to A. E. Stephens, 1200 Main St., Springfield, Mass., $157,900. Noted Dec. 31.

Wis., Milwaukee—Bd. School Directors, altering and constructing addition Hartford School, carpentry work, to A. Lasanske, 709 South 11th St., $28,204; roofing, to M. M. Schrantz, 2450 West Cornell St., $1,419; steel and iron, to W. Eichfeld & Sons, 135 East Pittsburgh Ave., $3,148; sheet metal, to Midwest Ventilating Wks., 123 East Pittsburg Ave., $1,832; tile, to Midwest Tile Art Co., 1646 West Fond du Lac Ave., $1,920; terrazzo, to H. Neidner & Co., 909 North Water St., $1,235; marble, to Andres Stone & Marble Co., 326 East Keefe Ave., $2,341; blackboards, to Milwaukee Blackboard Co., 277 East Erie St., $615; plastering, to A. H. Bleull, 394 Betsy Ross Pl., $9,950; painting, to F. Holland, 2194 North 46th St., $2,468; glass and glazing, to T. C. Esser, 3107 West Galena St., $1,150; hardware, to Stollenwerk Hardware Co., 2204 South Kinnickinnic Ave., $2,769. Grand total $57,051. Structural steel for Rufus King High School, to C. Hennecke Co., 3224 North Pierce St., $109,925. Noted Oct. 1.

THEATRES

PROPOSED WORK

Mass., Brookline—Owner, c/o C. P. Coughlan, 100 Milk St., Boston, theater, 147 Harvard St. $350,000. Private plans.

N. J., Englewood—M. and R. Realty Co., S. Lippman and L. Gottlieb, 491 East 27th St., Paterson, bids late in March, general and separate contracts 2 story, basement, brick, steel, rein.-con. theatre, store, office addition, 16 West Palisade Ave. $150,000. Noted Oct. 15.

CONTRACTS AWARDED

Me., Gardner—H. Johnson, c/o Bunker & Savage, archts., 256 Water St., Augusta, 3 story, basement, brick, steel theatre, store, plain found., Water St., to F. A. Rumery Co., 533 Forest St., Portland. Est. $150,000. Noted Jan. 28.

OFFICES

PROPOSED WORK

N. J., Englewood — R. Livingston, 13 East Palisade Ave., revised sketches by L. C. Licht, 4 North Dean St., 5 story, basement, brick, steel office, store, Palisade Ave. and North Dean St. $200,000. Noted Dec. 24.

N. J., Union—F. A. Elsasser, archt., 1000 Stuyvesant Ave., rejected bids general contract 2 story, basement, brick, steel store, office, Stuyvesant Ave., for World Realty Co., c/o architect, will revise plans for smaller project. Noted Dec. 31.

BIDS ASKED

Tex., Longview — Wyatt C. Hedrick, Inc., archts., 1005 1st Natl. Bank Bldg., Fort Worth, bids about Apr. 1, office building, for Oliver Daniels & Associates, Longview, $165,000. Noted Jan. 21.

CONTRACTS AWARDED

Pa., Phila.—J. J. Greenberg, Fidelity & Philadelphia Bldg., 8 story, basement, 60 x 140 ft., rein.-con., brick, steel office, store, plain found., 1618-20—22 Chestnut St., to Wark Co., 1608 Walnut St. Est. $500,000.

STORES

PROPOSED WORK

Ill., Rockford—H. L. Wortham, 203 West State St., plans by H. J. Ecklund, Gateway Bldg., 6 story, basement, 21 x 120 ft., rein.-con., brick, steel, stone department store building. $200,000. **Maturity early in summer.**

N. J., East Orange—S. H. Kress & Co., 114 5th Ave., New York, bids about May or later, general contract 3 story, basement, 70 x 135 ft. brick, steel store, Central Ave. $150,000. E. F. Sibbert, 114 5th Ave., New York, archt. Noted Jan. 14.

PUBLIC

PROPOSED WORK

Mass., Boston—HEALTH UNIT—City, G. H. White Fund, City Hall, plans by Coolidge, Sheyley, Bulfinch & Abbott, Ames Bldg., Health Unit 4, 2 story, bsaement, brick, Blue Hill Ave., 7 Savin St., Roxbury. $150,000. Noted Nov. 5.

Mass., Worcester—LIBRARY—City, Bd. Directors Free Public Library, new Central Library. To exceed $150,000. Architect not appointed. Site decided soon.

Mo., Columbia—CITY HALL—City, J. Gordon, mayor, election Apr. 5, $100,000 and on proposition to use $100,000 from water and light revenue surplus for purchase of site and construction rein.-con., brick, stone, for city hall. H. S. Bill, 1008 East Bway., archt. Eckel & Aldrich, Corby Bldg., St. Joseph, assoc. archts.

Ore., Tillamook—COURT HOUSE—Tillamook Co. bids in spring 2 story court house, City Square. $250,000. Lawrence-Holford, and Allyn & Bean, Failing Bldg., Portland, archts. Noted Jan. 14.

BIDS ASKED

Mass., Boston—POLICE STATION—Feb. 24 (extended date), by Transit Dpt., 3 story, basement, brick, stone, granite police station, Richmond and North Sts. $300,000; 3 story, basement, brick, stone, granite tunnel administration buliding North St. $300,000. Gray & Hefferman, 175 High St., archts. Noted Feb. 4.

N. J., Essex Fells—MUNICIPAL—Bd. Boro Council, Bor. Hall, bids about May 1, general contract 2 story, basement, brick, steel addition, Roseland Ave. To exceed $150,000. Peterkin & Bell, 285 Madison Ave., New York, archts. Noted Oct. 22.

N. J., Jersey City—HALL of RECORDS—Bd. Freeholders Hudson Co., Court House, bids about Mar. 15, 16 story, basement, 200 x 225 ft., brick, steel, adjoining court house. $2,000,000. J. T. Rowland, Jr., 30 Journal Sq., archt.

CONTRACTS AWARDED

N. Y., Peekskill—ARMORY—LaSala Mason Co., contractors, 51 East 42nd St., New York, structural steel for State Armory for Dpt. Mental Hygiene, State Office Bldg., Albany, to Lackawanna Steel Constr. Co., Walden St., Buffalo; concrete work to Pel Concrete Constr. Co., 52 Greene St., New York. Noted Jan. 7, under "Contracts Awarded."

Que., Montreal — GYMNASIUM, etc. — City Council, gymnasium and public hall in Notre Dame de Grace Ward, to A. F. Byers Ltd., 1226 University St., $220,000.

UNCLASSIFIED

PROPOSED WORK

Calif., Los Angeles—LAYMAN'S RETREAT—Loyola Retreat Assn. soon lets contract 3 story, brick, steel, metal, incl. baths, showers in Hollywood Hills, near Sunset Blvd. $150,000. R. Montgomery, 572 Chamber of Commerce Bldg., archt. Noted Nov. 12.

Ia., Sioux City—PASSENGER and FREIGHT TERMINAL—City Council and various railroads entering city revised plans by A. J. Hammond, 120 South La Salle St., Chicago, Ill., 4 story, 100 x 250 ft. concrete, brick, steel passenger and freight station, incl. rein.-con. subway approach to station. $1,000,000. L. Hintgen, city engr. Noted Oct. 8.

N. J., Clinton—EXCHANGE—New Jersey Bell Telephone Co., 540 Broad St., Newark, 2 story, basement, brick, steel telephone exchange. $150,000. **Maturity indefinite.** Architect not appointed.

N. J., Menlo Park—MUSEUM—Edison Parkway Comn. sketches by H. A. Kelly & J. B.

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Unclassified (Continued)

Peterkin, 285 Madison Ave., New York, memorial museum. $850,000. Noted Nov. 19, under "West Orange."

N. Y., New York—MUSEUM—Dpt. Parks, W. R. Herrick, pres. Park Dpt., Arsenal Bldg., Central Park, plans Metropolitan Museum of Art branch, Fort Tryon Park. To exceed $1,000,000.

O., Cleveland—COMMERCIAL—E. M. Hinds & W. F. Panke, c/o Chapman Constr. Co., Standard Bank Bldg., plans by R. H. Hinsdale, Erie Bldg., Cleveland, 2 story commercial and bank building, Lake Shore Blvd. $175,000.

BIDS ASKED

N. J., Irvington—FUNERAL PARLOR—Feb. 26, by A. M. Kleeman, archt., 960 Springfield Ave., 2 story, basement, brick, steel, Clinton and Orange Aves., for J. J. Manger, 600 South 10th St., Newark. Est. $150,000.

Okla., Oklahoma City—DEPOT—Mar. 1, by Atchison, Topeka & Santa Fe R.R. Co., H. W. Wagner, ch. engr. (eastern lines), Topeka, Kan., 2 story, basement, 104 x 386 ft., brick, steel passenger and express depot, California St. $500,000. Noted Feb. 11.

CONTRACTS AWARDED

Mo., Kansas City—EXCHANGE—Southwestern Bell Telephone Co., 11th and Pine Sts., St. Louis, general contract 2 story (ultimately 4 story), basement, 74 x 109 ft., rein.-con., brick, stone, terra cotta addition, to Miller-Stauch Constr. Co., 503 Railway Exch. Bldg. Est. $200,000. Noted Jan. 21.

Neb., Norfolk — EXCHANGE — Northwestern Bell Telephone Co., C. L. Pickett, local mgr., 3 story, basement, 45 x 70 ft., brick, steel, rein.-con., Madison Ave. between 5th and 6th Sts., to W. A. Klinger, Inc., Warnock Bldg., Sioux City, Ia.

Ont., Ottawa—BREWERY—Brading Breweries Ltd., 451 Wellington St., general contract 1 story, basement addition, to A. I. Garvock, Regent Theatre Bldg.; plumbing, to McKinley & Northwood, 56 Rideau St.; reinforcing steel, to Dominion Reinforcing Co., 396 Somerset St.; electrical work, to S. Lewis, 63 Metcalf St. Est. $50,000.

Industrial Buildings

FACTORIES AND MILLS

PROPOSED WORK

Calif., Hollister—PACKING PLANT—Sheehy & Cummings, 1 story, 50 x 150 ft., wood and corrugated iron packing plant.

Idaho, Moscow—FLOTATION MILL—Bellboy Gold Mining Co., Moscow, M. J. Savage, pres., Kellogg, 200 ton flotation mill. A. W. Fahrenwald, Moscow, engr.

Kan., Oswego—GAS PLANT—See "Power and Lighting."

Minn., Minneapolis—PLANT—General Electric Co., Schenectady, N. Y., E. M. Pinkerton, northwest mgr., 124 Valley View Pl., Minneapolis, purchased tract of land near Washington Ave. between 12th and 13th Aves. S. and plans electrical apparatus plant. $500,000.

Neb., South Omaha — MEAT PACKING PLANT—Armour & Co., 30th and Q Sts., Omaha, Neb., and 316 South La Salle St., Chicago, Ill., alterations and re-equipment meat packing plant. $250,000.

N. J., Elizabeth—ABATTOIR—Feldman Bros., Laurel St., soon lets general contract 1 story, basement, brick, steel addition. $40,000. A. J. Silberstein, 892 18th Ave., Newark, archt. Noted Jan. 28.

N. J., Newark—FACTORY—Unique Arts Mfg. Co., 196 Waverly Ave., revised sketches completed by S. Shaw & Co., engrs. and archts., 24 Commerce St., 2 story, basement, brick, steel, rein.-con., Waverly Ave. $75,000. Noted Aug. 6.

N. J., Newton—PLANT—M. K. Pickett & Son, 21 Townsend St., 1 story, basement, brick, steel artificial ice manufacturing plant. $40,000. **Maturity soon.**

N. Y., Circleville—DAIRY PLANT—Ferndale Dairy Co., I. Kotcher, pres., 2 story, basement, brick, steel dairy plant. $40,000. **Maturity soon.** Architect not appointed.

S. C., Spartanburg — BOTTLING PLANT — Spartanburg Coca Cola Bottling Co., c/o W. G. Jackson, plans by Pringle & Smith, Norris Bldg., Atlanta, Ga., 2 story, rein.-con., structural steel, brick, hollow tile, limestone bottling plant. $75,000.

Tenn., Chattanooga—PROCESSING PLANT—See "Warehouses."

W. Va., Chester—FACTORY—E. C. Otis Mfg. Co., Toronto, soon takes bids 1 story, 50 x 184 ft., brick, tile, concrete, along tracks Penn. R.R. $60,000. Private plans.

B. C., Vancouver—PLANT—Pressure Pipe Co. of Canada Ltd., C. L. Jobb, pres., 1321 Sherbrooke St. W., Montreal, Que., completed arrangements establishing plant in British Columbia Terminal City. $75,000.

Ont., Toronto—PISTON RING PLANT—McQuay-Norris Mfg. Co., W. K. Norris, pres., 2320 Cooper St., St. Louis, Mo., purchased 3½ acre tract and plans rein.-con., brick plant additions, covering 30,000 sq.ft., York Twp. $1,500,000. **Maturity indefinite.**

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BIDS ASKED

Mass., Dudley—ICE PLANT—See "Contracts Awarded."

Mass., Holyoke—ICE PLANT—Holyoke Ice Co., W. T. Wilson, treas., 65 Prospect St., taking bids 1 story, 60 x 120 ft., brick, steel, plain found., Walnut and Prospect Sts. $40,000. R. E. Palmer, 56 Suffolk St., archt.

Mo., St. Louis—PLANT—Binz Hide & Tallow Co., DeKalb and Zepp Sts., taking bids 1 and 2 story, 32 x 106 ft. rein.-con., brick addition, concrete found., Zepp and DeKalb Aves. $40,000. C. L. Krause, 3944 Evans Ave., archt.

Mo., St. Louis—BAKERY, etc.—Feb. 20, by Kroger Grocery & Baking Co., 35 East 7th St., Cincinnati, O., general contract 4 story, basement 85 x 190 ft. and 1½ story, 43 x 63 ft. bakery, garage and office building 1311 South 39th St. $700,000. E. E. Niemann, 3816 Shaw Ave., St. Louis, Mo., archt. Noted Nov. 19.

N. Y., Brooklyn—LAUNDRY—General Linen Supply, 835 Myrtle Ave., bids about Mar. 15, general contract 4 story laundry, Stockton St. and Marcy Ave. $175,000. M. Marlo, 200 Beverly Rd., archt. Noted Jan. 7.

Pa., Franklin—MANUFACTURING PLANT—Venango Mfg. Co., 1st and Liberty Sts., subsidiary Franklin Railway Supply Co., 60 East 42nd St., New York, receiving preliminary bids (by invitation only), 1 story, 260 x 300 ft. and 200 x 260 ft. brick, steel, 300 ft. siding, Liberty Ave. $750,000. M. Hefferman, 1st and Liberty Sts., archts. Noted Feb. 4.

Va., Alexandria—PLANT—Ford Motor Co., 3674 Schafer Rd., Dearborn, Detroit, Mich., bids about Feb. 20, 1 story, 200 x 400 ft. distribution and service building. A. Kahn, 1004 Marquette Bldg., Detroit, Mich., archt. Noted Jan. 28.

CONTRACTS AWARDED

Calif., Los Angeles — BATTERY PLANT — Willard Storage Battery Co., 5700 East 9th St., steel, rein.-con. storage battery plant, incl. lead-oxide mill, acid reclaiming plant, enlarging administration building to W. P. Neil Co., 4814 Vista St. Est. $100,000. Noted Jan. 28.

Ill., Chicago—ICE CREAM PLANT—J. T. Cunningham Ice Co., Inc., 2235 Harrison St., 2 story, basement, 124 x 162 ft., rein.-con., brick, steel, concrete pile found., 2225 West Harrison St., to Equity Constr. Co., 608 South Dearborn St. Est. $300,000.

Me., Auburn—BAKERY—C. O. Eith, 164 Turner St., altering and constructing 1 story, basement addition, Spring and Hampshire Sts., J. C. Boucher, 37 Chestnut St., Lewiston. $40,000. Noted Feb. 4.

Mass., Dudley — ICE PLANT — A. W. McKinstrey, Webster, 1 story, brick, timber, West Main St., day labor. $40,000. Private plans.

N. J., Newark — REFINERY PLANT — A. Peter, archt., 207 Market St., general contract 2 story, basement, brick, steel, cement block, to Levine Bros., 519 South 14th St., Newark, for Owner, c/o architect. Est. $40,000. Noted Jan. 7.

N. Y., New York—FACTORY—Payson Varnish Co., 1 story, 49 x 95 ft. factory, to J. O'Toole, 2124 Newbold Ave. Est. $40,000. Noted Feb. 11.

N. C., Ashboro—HOSIERY MILLS—Acme Hosiery Mills, mill, to Goode Constr. Co., Charlotte. Est. $40,000.

Pa., Phila.—ABATTOIR—Stadler Eng. Co., engrs., 140 Liberty St., New York, 1 and 2 story, 72 x 148 ft., concrete, rein.-con., brick, plain found., to Barclay White & Co., Roosevelt Blvd. and Adams St., for United Butchers Abattoir Co., A. Monk, pres., 3055 Ludlow St. Est. $200,000. Noted Jan. 7.

R. I., East Greenwich—FACTORY—Greenwich Mills, 3 story, 75 x 100 ft., brick addition, to O. D. Purington & Co., 49 Westminster St., Providence. Est. $40,000.

Vt., Vergennes — MILK PLANT — Sheffield Milk Co., L. H. Brown, dist. mgr., Burlington, 2 story, 60 x 165 ft., concrete, steel, milk product plant. $40,000. Owner builds. Private plans.

Va., Martinsville—KNITTING MILLS—Pannill Knitting Co., 3 story, 60 x 100 ft. knitting mills, to Finley & McCoy, Martinsville. Excavation and foundation in progress. Est. exceeds $40,000. Noted Jan. 7.

GARAGES

PROPOSED WORK

N. Y., Brooklyn—B. Greenberg, 4902 Foster Ave., bids after Mar. 15, general and separate contracts, 1 story, 95 x 150 ft. public service garage, Hegeman Ave. and Malta St. $40,000. S. F. Oppenheim, Inc., 26 Court St., archts. Noted Jan. 28.

N. Y., Ozone Park — Beanor Serv. Station, Rockaway Blvd. and 130th St., plans by A. Goldberg, c/o owner, 1 story, 38 x 82 ft. brake testing lubrication and special service garage, Rockaway Blvd. and 130th St.

Ont., Hamilton—See "Warehouses."

See proposal advertising on page 62

BIDS ASKED

Ill., Chicago—Firestone Tire & Rubbe 1920 South Michigan Ave., H. A. Pla charge, bids about Feb. 15, 1 story, 100 x ft., rein.-con., steel, stone, super-service st 4400 West Madison St. $50,000. Private p

Mass., Shrewsbury—Town, P. Wks. Dpt., ing bids 1 story, brick, concrete garage shop. $40,000. A. J. Daniels, 661 Main engr.

Mass., Springfield—Feb. 26, by General tric Realty Co., River Rd., Schenectady, N 2 story, 100 x 125 ft., brick, steel sales service building, 278 King St. $250,000. vate plans. Noted Jan. 28.

N. J., Edgewater — National Sugar Ref Co. of New Jersey, River Rd., taking bi story, basement, brick, steel, rein.-con. ga $150,000. Private plans.

CONTRACTS AWARDED

Vt., Newport—Bradley Auto Sales, Inc. buliding 1 story, rein.-con., brick, steel ser and sales garage, concrete found., to S. J. ting, Newport.

SHOPS AND FOUNDRIES

PROPOSED WORK

N. J., Teterboro—See "Clubs."

POWER PLANTS

PROPOSED WORK

Ia., Sumner—City Council preliminary su veys municipal power and light plant. H. L Cory, 3905 North 17th St., Omaha, Neb., engr

Minn., Sleepy Eye—City Council soon takes bids remodeling, improving municipal power plant. A. G. Plagens, New Ulm, archt.

N. Y., Jackson Heights—Pennsylvania R.R Co., T. J. Skillman, ch. engr., Broad Street St Phila., Pa., 1 story, 27 x 27 ft. railroad substation, Austin Pl. and Herrick Ave.

BIDS ASKED

Ind., Garrett—See "Waterworks."

Ia., Grand Junction—Mar. 8, by City Council 37 x 47 ft. brick municipal power plant, incl. **(1)** two 265 hp. Diesel engines, **(1a)** two 240 hp. Diesel engines, optional, **(2)** two 185 kw. electric generators directly connected to above Diesel engines, **(2a)** two 170 kw. electric generators directly connected to above Diesel engines, units to be fully equipped and completely installed, also complete distribution system to cover town. $85,000. O. V. Blaylock, town clk. Noted Feb. 11.

WAREHOUSES

PROPOSED WORK

La., New Orleans — Southern Pacific Co., Southern Pacific Lines (in Texas and Louisiana), Texas & New Orleans R.R. Co., Houston, Tex., R. W. Barnes, ch. engr., extending fruit and vegetable terminals, incl. two 60 x 540 ft. rein.-con., steel, brick additional units, constructing paved driveways on Front St. side.

Mo., St. Louis—Owner, c/o T. H. Cobbs, 506 Olive St., bids early in spring (1st unit) 3 rein.-con., brick freight warehouses on Bernard St. between Grand Blvd. and Prospect Ave., and between Market St. and Wabash Ry. $125,000. Total est. $500,000. Noted Jan. 14.

N. Y., Brooklyn—Reliable Van and Storage Co., Bay 19th St. and Bath Ave., plans by A. Goldberg, 164 Montague St., altering and constructing 4 story, storage addition, Bay 19th St. and Bath Ave. To exceed $40,000.

Pa., Pittsburgh—Commercial Milling Co., V. M. Wintermantel, in charge, 305 Ferry St., soon lets contract 1 story, 34 x 271 ft. brick, steel warehouse, Irwin, West North and Beech Sts. $50,000. Private plans.

Tenn., Chattanooga — Peerless Woolen Mills, Rossville, Ga., sketches 3 or 4 story, basement 100 x 300 ft. warehouse and processing plant, Rossville St. $100,000. Engineer and architect not appointed.

Ont., Hamilton—British American Oil Co., Royal Bank Bldg., 1 story, 40 x 130 ft. warehouse, 1 story, 60 x 80 ft. garage, both brick, steel, concrete founds., also 5 oil and gasoline steel storage tanks, Wentworth St. near Ottawa St. $50,000. Private plans.

CONTRACTS AWARDED

Pa., Pittsburgh—Norton Co., 338 3rd Ave., O. Anderson, mgr., bids about May 1 on revised plans 3 story, 70 x 100 ft. brick, steel warehouse, office, 1 story (ultimately 3 story) 21 x 41 ft. garage, Carson St., Ballinger Co., 105 South 12th St., Phila., archts. and engrs. Noted Oct. 1.

Pa., Wilkes-Barre—E. A. Bump, archt., c/o Swift & Co. (owner) 90 North Market St., Boston, Mass., 2 story, basement, 85 x 100 ft., rein.-con., brick steel wholesale market warehouse, plain found., to William Steele & Sons Co., 124 North 15th St., Phila. Noted Jan. 28.

CONSTRUCTION NEWS

SECTION OF ENGINEERING NEWS-RECORD—FEBRUARY 25, 1932

WATERWORKS

PROPOSED WORK

Calif., La Habra—Plans surveys municipal waterworks. To exceed $25,000.

Idaho, Sugar City—City purchasing, installing deep well turbine pump, also casing two 8 in. wells to 80 ft. depth. J. J. Ladle, Sugar City, engr.

Ill., Lake Forest—City, J. C. McNicol, supt. Water Dpt., City Hall, pumping plant and filtration plant addition, Spruce St. and Lake Michigan. $50,000. **Maturity in late spring or early summer.**

Ill., River Grove—Village preliminary plans pumping station and reservoir 350,000 gal. capacity, 3 pumps, appurtenances. $30,000. Probably vote on bond issue in late spring. **Maturity in summer.** Suhr, Berryman, Peterson & Suhr, 130 North Wells St., Chicago, engrs.

Kan., Larned—City reports made and action soon water main improvements. $115,000. C. A. Haskins, 822 Finance Bldg., Kansas City, Mo., engr.

Mass., Maynard—Town, Bd. Selectmen, waterworks improvements. $35,000.

Minn., Elbow Lake—City, A. M. Nelson, clk., furnishing materials, installing 3 blocks mains. To exceed $1,000.

Minn., Moorhead—City furnishing, installing 8 in. c.i. mains in 3rd Ave. S. between 4th and 11th Sts. and extending 12 in. c.i. feeder main to north side. R. G. Price, city clk.

Mont., Great Falls—City, W. H. Harrison, clk., reconstructing damaged settling basin at filtration plant. E. Henen, city engr. Black & Veatch, Mutual Bldg., Kansas City, Mo., consult. engrs.

N. D., Fargo—City, C. O. Jorgenson, aud., standpipe on North Side to maintain even pressure. W. P. Tarbell, city engr. Noted Jan. 8.

O., Canfield — City officials plan to revive movement to build waterworks, following recent disastrous fire. It is expected bond issue will be submitted to voters at special election in spring.

O., Lancaster — T. C. Cox, dir. Service, 2 m.g.d.c. zeolite system water softening plant. $50,000. Preliminary plans to be submitted Mar. 22. C. P. Hoover, 8 East Long St., Columbus, engr.

O., Roseville — Village, preliminary plans waterworks plant, first to get supply, will sink wells, 36,000 ft. lines, valves, etc. $40,000. May construct softening plant, depending on water supply. Jennings-Lawrence Co., 12 North 3rd St., Columbus, engr.

S. D., Vermilion—City investigating means for increasing storage capacity at water plant, considering installation 2nd reservoir or erecting standpipe or water tank. R. V. Newcomb, city pipe or water tank. R. V. Newcomb, city engr.

Va., Bedford—See "Contracts Awarded."

Va., Roanoke—Roanoke Waterworks Co., C. E. Moore, mgr., preparing plans extensive additions, changes. Palmer St. Clair, Jr., Roanoke, consult. and contg. engr.

Va., Stuart—City, J. R. Moore, engr. supervising, changes, general repairs to water supply, incl. changes at reservoir, testing, repairing meters, installing additional meters, $3,000. Desires prices and information on reducing valves, hydrants, meters, meter testing devices and instruments for locating underground piping.

W. Va., Wellsburg—City Council authorized expenditure $5,580, installing water softening plant.

Wis., Verona—Village, bids early in April, waterworks system. $34,000. W. G. Kirchoffer, Madison, engr. Noted Nov. 12.

Man., Churchill—Manitoba Govt. plans water lines when townsiet is opened for settlement in a few months. Address J. L. R. Sutcliffe, ch. clk., Dpt. Natural Resources, Parliament Bldgs., Winnipeg.

Ont., Brantford—A. L. S. Nash, preparing plans watermain distribution system, for Twp. Council.

Ont., Burlington—J. Hobson, town clk., new waterworks pump house intake clarification system.

Ont., Fort Erie—R. Hagey, town engr., 8 in. main in Gilmour Rd. $3,000.

Ont., Kingston—H. S. Dick preparing plans watermain extension. $5,000.

BIDS ASKED

Ill., Moline — Mar. 30, by City, H. Huey, mayor, additional reservoir, purification system, new connecting mains. $350,000. Pearse, Greeley & Hansen, 6 North Michigan Blvd., Chicago, engrs. Noted Feb. 4.

Mass., Lynn—See "Contracts Awarded."

N. J., Chatham—Mar. 7, by Boro Council, Boro Hall, deep well pump and appurtenances, building for deep well pump and valve chamber. Clyde Potts, 30 Church St., New York, consult. engr.

N. Y., Long Island City—Mar. 1, by J. J. Dietz, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, building for Flushing iron removal filter plant at Fresh Meadow Lane and Underhill Ave. Noted Mar. 19.

N. Y., Mount Vernon — See "Contracts Awarded."

S. D., Huron—Mar. 14, by City, M. F. Walt, aud., drilling one 500 gal. tubular well, furnishing, installing pump, electric motor, foundations and automatic control.

O., Columbus—See "Contracts Awarded."

CONTRACTS AWARDED

Ill., North Chicago—City, turbine pump for well, to Layne-North Central Co., Des Plaines, $1,351.

Mass., Lynn—City, Water Dpt., large water storage basin, Lynn Woods, unemployment labor. To exceed $15,000.

Mass., New Bedford—City, furnishing 1,260 ft. 6 in. and 300 ft. 3 in. De Lavaud c.i. pipe, to U. S. Pipe & Fdry. Co., 1421 Chestnut St., Phila., Pa.

N. Y., Mount Vernon—City, replacing three 12 in. and one 10 in. mains, day labor. $55,000. Bids for pipe to be advertised last week of February. Dpt. Water Supply, City Hall, engr.

O., Columbus — For 12 in. c.i. water line Weber Rd., $21,000, pipe, valves, etc., to be purchased on existing contract; 6,000 ft. 16 in. water line, 10 valves, Oakland Park Ave., $32,000; 2,800 ft. 12 in. c.i. water line, Monroe Ave., $6,000, pipe, 6 valves, etc., to be purchased on existing contract. Work will be done by day labor. R. H. Simpson, City Hall, engr.

Pa., Harrisburg—See "Sewers."

Va., Bedford—City, W. C. Ballard, mgr., increasing reservoir capacity, installing new lines and booster pump, extending mains, hydrants, day labor; contract for 700 g.p.m. motor driven pump, to Ingersoll-Rand, 11 Bway., New York.

Wis., Beaver Dam — City, construction, installation for enlargement of well, to Gray-Milaeger Drilling Co., Wisconsin Ave., Milwaukee, $1,975.

Man., Winnipeg — City, constructing watermain in Wolseley Ave. from point 157 ft. west of Camden Pl. to point 300 ft. further west. $1,100. Owner builds, under supervision W. P. Brereton, city engr., 223 James St.

SEWERS

PROPOSED WORK

Calif., Albany—Completing plans 2,048 lin.ft. 18 in. sewer, 800 ft. r.w. sleepers, 2,000 ft. timber piles, 500 ft. timber found., manholes. H. I. Dygart, city engr.

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Some of the Week's Large Projects

For further details turn to appropriate sections in this issue

Location	*Project*	*Cost*	*Status*
Streets and Roads			
Oregon	Roads and bridges	$3,943,000	Proposed
Dams			
Los Angeles	Dam	1,690,264	Contract
Railways			
Minnesota and Wisconsin	Track work, etc	1,500,000	Proposed
Illinois and Wisconsin	Track work, bridges, etc	5,500,000	Proposed
Sports and Parks			
Jersey City	Stadium, etc	5,000,000	Contract
Unclassified			
Atlantic City	Community development	1,000,000	Proposed
Federal Government			
Hot Springs (Ark.)	Veterans Hospital	1,023,000	Contract
Washington	Post office	4,000,000	Bids asked
West Point (N. Y.)	Hospital, school, quarters, etc	2,061,000	Proposed
Factories and Mills			
Saxton (Pa.)	Coal cleaning and sizing plant	1,500,000	Proposed
Buildings			
Brooklyn	Hotel	1,000,000	Separate contracts
New York	Apartment	1,000,000	Separate contracts
Indianapolis	Library, etc	1,000,000	Bids asked
St. Louis	Auditorium	3,700,000	Proposed
Cleveland	Fire department	2,000,000	Proposed
Scranton (Pa.)	Junior high school	1,500,000	Proposed
Providence	Senior high school	1,500,000	Proposed
Menlo Park (N. J.)	Memorial	1,000,000	Proposed

See proposal advertising on page 54

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. . . *all joints made with* LEADITE

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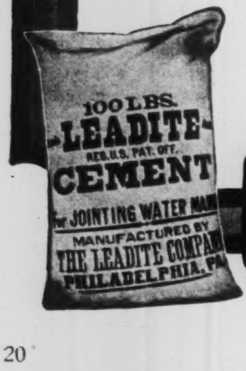
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MANUFACTURED BY
THE LEADITE COMPANY
PHILADELPHIA, PA.

No Caulking

Sewers (Continued)

Ind., Kendallville—A. H. Smith & Niles Co., consult. engrs., 112 East Woodruff Ave., Toledo, O., submitted complete report sewage disposal plant and same was approved by State Bd. Health Plans for financing under way. W. De Vault, city clk. Noted Sept. 3.

Ia., Ottumwa — City Council, new bids in spring, 435 ft. 12 in. and 495 ft. 10 in. storm and sanitary sewers, 31 wyes, 33 ft. manholes, 4 manhole castings in Richmond Sewer on Ferry St. north of Chester Ave., from Richmond Ave. north 140 ft. H. E. Cook, City Hall, engr.

Kan., Hays—Preliminary plans sewage disposal plant, auxiliary pipe. $70,000.

Kan., Leavenworth—City Council, preliminary plans 18th St. Sewer. $24,945. also sanitary sewer in South 5th St. Dist. E. A. Schaaf, city clk.

Mass., Canton — Town, Sewer Comn., Town Hall, bids about March, extending sewerage system mains. $50,000. Whitman & Howard, 89 Broad St., Boston, Mass., engrs.

Mass., Ludlow—Town extending main sewer line. $56,000.

Mass., Pittsfield — City, report submitted, sketches, sewage disposal trickling filter system. $500,000. Metcalf & Eddy, Statler Bldg., Boston, engrs. Noted Nov. 20, 1930.

Okla., Oklahoma City—City made preliminary plans additional Imhoff tank at North Side Sewage Disposal Plant. $25,000. J. L. Pruis, City Hall, engr.

Pa., Jeannette — Boro, A. Gillespie, chn. Finance Com., additional sewers under town or flood control dams will be required if railroad does certain construction work. $200,000.

Pa., Somerset—Boro completed plans sewage disposal plant, 2 mi. outfall sewer. $100,000. G. C. Winslow, Boro Bldg., engr.

R. I., Pawtucket—City, H. A. Fuller, comr. P. Wks., sewage disposal plant. $50,000. F. C. Williams, city engr.

Va., Richmond—City appropriated $300,000, sewer improvements, incl. continuation Bacons Quarter Branch Main Sewer, Cary St., Grove and Floyd Ave. Relief Sewers.

Wis., Clintonville—City, J. Spearbroker, clk., sewage disposal plant, equipment. $25,000. L. P. Pelsiheb, city engr.

Wis., Portage—Preliminary plans sewage disposal plant. $75,000. **Maturity in summer.** Pierce, Greeley & Hansen, 6 North Michigan Ave., Chicago, Ill., engrs.

BID ASKED

Ill., Chicago—Mar. 3, by Sanitary Dist. of Chicago, 910 South Michigan Ave., J. J. Sullivan, ch. engr., sludge drying unit, 35 ft. diam. concentration tank, mechanical thickening machinery, vacuum filter with vacuum and sludge pump, 96 in. rotary drier 70 ft. long, conveyors, coal and ash handling equipment, piping, auxiliary equipment, also 52 x 110 ft. steel, corrugated iron building for housing equipment, 52nd Ave. and Pershing Rd., Stickney. E. J. Kelly, 910 South Michigan Ave., engr. Noted Feb. 4.

Kan., Colby—City Council, bids about Mar. 8, sewage disposal plant, with auxiliary piping. E. T. Archer & Co., 609 New England Bldg., Kansas City, Mo., engrs.

Md., Baltimore—Mar. 2, by Bd. Awards, sanitary sewers, storm drains, in miscellaneous sewer districts, Storm Water Contr. 174, incl. 1,010 lin.ft. 10 ft. x 4 ft. 6 in. and 6 ft. x 4-ft. 6 in. rectangular concrete drain; 1,805 lin.ft. 24- to 36-in. rein.-con. pipe drain; 1,015 lin.ft. 21 and 24 in. vitr. pipe drain; 1,450 lin.ft. 15 and 18 in. vitr. pipe drain. G. E. Finck, Municipal Bldg., sewerage engr.

Mo., St. Louis—Mar. 15, by Bd. P. Serv., City Hall, sewers in Sect. B-4, Western Mill Creek Public Relief Sewer, $55,000; Sect. B-7, same sewer, $46,000; Sect. B-8, same sewer, $38,000. W. W. Horner, city engr.

Okla., Oklahoma City — City in market 2 centrifugal drying machines for drying sludge at sewage disposal plant. J. L. Pruis, engr.

Pa., Johnstown—See "Contracts Awaredd."

CONTRACTS AWARDED

Ind., Mishawaka — City, repairing Spring Street Sewer from 7th St. to River, to National Gunite Contg. Co., 549 West Washington Bl., Chicago, Ill., $10,359.

Md., Baltimore—Bd. Awards, 240 lin.ft. 16 and 18 in. c.i., 3,070 lin.ft. 15 and 18 in. and 1,407 lin.ft. 8, 10 and 12 in. vitr. sewer, 684 lin.ft. 6 in. house connections, 1,400 lin.ft. 4 and 6 in. underdrains in Sewer Dists. 49 and H-4, to Chesapeake Contg. Co., 2400 Kirk Ave., $18,362. Noted Jan. 21.

Mass., Boston—Dpt. P. Wks., sewers, grading in Centre St., West Roxbury, to C. J. Maney Co., 55 Fargo St., $64,142. Noted Jan. 28.

Mich., Flint—City Council, south branch of North Thread Creek Sanitary Sewer and Northwest Branch Lower East Side Interceptor, to Blanck & Gargaro, 40 Seven Mile Rd. E., Detroit, $21,990 and $11,046 respectively. Noted Nov. 19.

Minn., Duluth—Sanitary sewers in Superior St., London Rd. and 42nd Ave. E., to J. Wünamaki, Phoenix Bldg., $65,328. Noted Oct. 29.

Pa., Harrisburg—Pennsylvania Dpt. Property & Supplies, sewage treatment plant and water supply system at Pennsylvania State Hospital, at Pennhurst, to Vincenzo De Francesco, Llanerch, $54,750.

Pa., Johnstown—City, 12 mi. sanitary sewers, day labor. Will purchase about $20,000 worth equipment. Total est. $200,000. H. L. Wilson, City Hall, engr.

Ont., Ottawa—Secretary Bd. Control, replacing sewer in York St., from Dalhousie to Sussex Sts., to J. McKenna, 368 Besserer St., $7,000; Spark St., from Bank to Metcalfe Sts., to Grant Bros. Contg. Co. Ltd., Bank St., $36,000.

WASTE DISPOSAL

PROPOSED WORK

N. Y., Brooklyn—C. W. Cater, Inc., 100 Varick St., New York, plans by Morse, Boulger Destructor Co., engrs. and archts., 205 East 42nd St., New York, 6.8 x 10.2 ft. incinerator, 40 ft. high and stack, Sigourney and Otsego Sts.

BRIDGES

PROPOSED WORK

Calif., Stockton—City, L. Payton, city engr., San Joaquin Co., J. B. Manthey, surv., Atchison, Topeka & Santa Fe R.R. Co., 80 East Jackson Blvd., Chicago, Ill. G. W. Harris, ch. engr., Western Pacific R.R., Mills Bldg., San Francisco, J. W. Williams, ch. engr., Southern Pacific R.R. Co., 65 Market St., San Francisco, G. W. Boschke, ch. engr., surveys Joint Industrial Highway-Railroad Bridge over San Joaquin River in connection with Belt Line R.R. extension of city. $300,000.

Idaho, Boise—State Hy. Dpt., rein.-con. bridge over Boise River at Fairview Ave., with 2,000 ft. highway approaches at each end. $175,000. Noted May 14.

Illinois and Wisconsin—See "Railways."

Kan., Ft. Scott—City preliminary plans rein.-con. steel bridge over Marmaton River, on North National Ave. $47,000. C. Luffel, city clk.

Kan., Kansas City—City Council preliminary plans rein.-con. viaduct 26 ft. wide with 5 ft. concrete sidewalks over 7th Street Trafficway on Shawnee Rd. $25,000. C. E. Peterson, City Hall, engr.

Me., Kennebunkport — State Hy. Comn., Augusta, concrete, steel bridge over Kennebunk River. $40,700.

Mass., Chelsea — Commonwealth of Massachusetts, Boston, new bridge over Mystic Ave. To exceed $25,000. Metropolitan Dist. Comn., 20 Somerset St., Boston, engrs.

Mass., Manchester — Town, Bd. Selectmen, bridges and hy. construction. $28,000 appropriated.

Mass., Stoughton — Town, Bd. Selectmen, bridges and hys. $28,500.

Okla., Oklahoma City—Bd. Supervs. Oklahoma Co., preliminary plans 2 span 440 ft. truss bridge over Canadian River at Western Ave. $60,000. J. F. Frazier, Court House, engr.

R. I., Providence—City, Bd. Contr. & Supply, preliminary sketches concrete bridge, Smith and Canal Sts. $25,000. S. F. Nolan, City Hall, engr.

Texas—Ellis Co. (Waxahachie) and State, 425 ft. rein.-con. vehicular bridge, 24 ft. wide, on Hy. 34, State Aid Project 754-I, $38,000. A. A. Spalding, Waxahachie, co. engr.

BIDS ASKED

Calif., Santa Rosa—Mar. 15, by G. Sanborn, clk. Sonoma Co., Geyserville Bridge, 978 ft. long, incl. 100 ft. steel spans with thirteen 24 ft. concrete pile trestles, 24 ft. roadway. E. A. Peugh, Santa Rosa, co. surv.

Illinois—Mar. 9, by State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, three 20 ft. span extension, paving approaches, bridge on Route 7, Sect. X-1-B La Salle Co.—70 ft. span steel, concrete bridge, earth approaches, Route 18, Sect. 8-S-B—60 ft. span rein.-con. girder bridge, Route 52, Sect. 525-H, both Cook Co.—eleven 51 ft. span bridge, paving approaches, Route 54, Sect. 543-H-1 DuPage Co.—one 35 ft. and one 55 ft. span rein.-con. girder bridges, rein.-con substructure, Route 92, Sect. 140-B—one 130 ft., one 70 ft. span steel superstructure, Route 92. Sect. 140-C, Bureau Co.—rein.-con. substructure and six 50 ft. I-beam approach spans, Route 95, Sect. 123-B—200 ft. span steel superstructure, Route 95, Sect. 123-C, both Fulton Co.—two 50 ft. span rein.-con. girder bridges, Route 95-A, Sect. 106-B—two 26 ft. span rein.-con. slab bridges, one 18 ft. span rein.-con. girder bridge, one 45 ft. span rein.-con. substructure, Route 95-A, Sect. 107-B—100 ft. steel superstructure, Route 95-A, Sect. 107-C, all Hancock Co.—rein.-con. substructure and four 50 ft. steel I-beam approach spans, one 50 ft., two 10 ft. span rein.-con. girder bridge, two 12 ft. rein.-con. culverts, Route 108, Sect. 110-B, all Macoupin Co.—one 40 ft. span rein.-con. girder bridge, Route 108, Sect. 111-B Macoupin and Montgomery Counties—one 45 ft. span rein.-con. girder bridge, Route 124, Sect. 101-B Sangamon Co.—three 45 ft. span steel I-beam bridge on concrete piles, Route 127, Sect. 110-B Bond Co. F. T. Sheets, hy. engr.

Iowa—Mar. 1, by State Hy. Comn., Ames, one 28 x 24 ft., one 32 x 24 ft., one 44 x 24 ft. and three 50 x 24 ft. I-beam bridges, 2 culverts, Rd. 169 north of Humboldt, F.A.B. 117 Humboldt Co.—60 x 20 ft. pony truss bridge, 51 culverts, extensions, Rd. 14, F.A.B. 63 Lucas Co.—20 culverts, extensions, Rd. 2 east of Knoxville, F.A.B. 7—14 culverts, extensions, Rd. 2 east of Knoxville, F.A.B. 75, Marion Co.—32 x 24 ft. I-beam bridge, 13 culverts, extensions, also raising, widening 20 x 20 ft. I-beam bridge, Rd. 72, west of Dows, F.A.B. 343, Wright Co.

Kansas—Mar. 4, by State Hy. Comn., Court House, Ottumwa, Bridge 1, four 30 ft. deck girder spans, 24 ft. roadway—Bridge 2, three 8 x 6 x 40 ft., multiple box spans—Bridge 3, one 35 ft. deck girder span, 24 ft. roadway, Kansas Project 39, Bourbon Co. W. V. Buck, Topeka, hy. engr.

Me., York—Mar. 1, by State Hy. Comn., State House, Augusta, hy. bridge, involving 7,730 lin.ft. creosoted piles, 33,000 ft. creosoted timber, 850 cu.yd. concrete, 297,000 lb. structural steel.

Maryland—Mar. 8, by State Roads Comn., Baltimore, G. C. Uhl, chn., single leaf bascule span superstructure, for bridge, Contr. Ch-92-1-84 Charles Co.; structural steel superstructure (double 108 ft. span steel truss), for bridge, Contr. F-183-57 Frederick Co.; adv. E. N.-R. Feb. 25.

Massachusetts—Mar. 7. (extended date), by Comrs. Dukes Co., Edgartown, new draw bridge, lagoon bridge, Oak Bluffs and Tisbury.

Miss., Hazelhurst—Mar. 1, by Supervs. Copiah Co., bridge over Mill Creek on Dentville-Carpenter Rd.; 196 ft. retaining wall, using concrete piling, at Fosters Creek on Hazelhurst-Port Gibson Rd.

Ohio—Mar. 4, by O. W. Merrell, dir. hys., Columbus, 27.5 ft. span creosoted timber bridge with steel stringers, 24 ft. roadway, over Huron River, Sect. "G" Monroeville-Chicago Junction Rd., Huron Co., $1,943; three 36 ft. span concrete beam bridge, 29 ft. roadway over Indian Creek, Sect. "Millville" Millville-Oxford Rd., Butler Co., $20,616.

Ohio—Mar. 4, by O. W. Merrell, dir. hys., Columbus, 22 ft. span, concrete slab top culvert, 46 ft. roadway and approaches on Sect. "J" Cleveland-Sandusky Rd., Lorain Co., $25,529.

Texas—Mar. 1, by G. Gilchrist, state hy. engr., Austin, six 12 and ten 20 ft. steel I-beam span for Iron, Bedias Creek Relief and Bedias Creek Bridges, Hy. 90, State Project 610-F, Madison Co., $25,000; nine 30 ft. 6 in. concrete deck girder span bridge over Pecan Creek, and South Concho Bridge consisting eleven 30 ft. 6 in. concrete deck girder spans, Relief Bridge consisting ten 10 x 10 x 26 ft. multiple boxes, roadway approaches, Hy. 30, State Project 141C, Tom Green Co., $40,000.

Virginia—Mar. 1, by State Hy. Dpt., Richmond, three 25 ft. beam span rein.-con. bridge over Bridle Creek, Route 12, Project S-360-B3, two 45 ft. rein.-con. beam spans, one 75 ft. low steel truss span bridge over Fox Creek, Route 12, Project S-360-B4—three 35 ft. rein.-con. beam spans over Peggy Branch, Route 12, Project S-360-B5, all Grayson Co. H. G. Shirley, hy. engr.

CONTRACTS AWARDED

Ariz., Camp Verde—State Hy. Comn., Phoenix, 4 span rein.-con. arch bridge on Camp Verde-Fossil Creek Rd., near here, to Packard & Tanner, Phoenix, $48,846.

Georgia—J. W. Barnett, state hy. engr., East Point, 4 bridges in Clyde-Savannah Rd., State Aid Project 591-A, Bryan Co., to Kiker & Yount, Reidsville, N. C., $20,000; bridge over Noltely River, on Dahlonega-Blairsville Rd., State Aid Project 310, Union Co., to E. M. Williams, Monroe, $7,100. Noted Feb. 4.

Kansas—State Hy. Comn., Garden City and Parsons, Bridge 2, Federal Aid Project 23 Montgomery Co., to A. L. Cook, Ottumwa, $6,919—5 bridges on Federal Aid Project, 359-B Finney Co., to Gray & Marbut, Emporia, $20,803—Bridge 1, Federal Aid Project 23 Montgomery Co., to Tomlinson Bridge Co., Wichita, $58,713. Grand total $86,435. Noted Jan. 14, under "Streets and Roads."

Kansas—State Hy. Comn., Olathe **(F.A.P. means Federal Aid Project)**, to E. King, Hesston, 10 bridges, F.A.P. 278-F McPherson Co. $45,981—to Jensen Constr. Co., Kimballton, Ia., bridges F.A.P. 441-A $21,385; F.A.P. 435-B $21,580, both Marshall Co.—to Brosnahan Bros., City Bank Bldg., Kansas City, Mo., Bridges 2, 3 and 4, F.A.P. 441-A Marshall Co. $16,604; 2 bridges F.A.P. 282-C Labette Co. $1,093; 2 bridges F.A.P. 407-B Atchison Co. $42,531—to S. B. Murphy, Centralia, bridge F.A.P. 441-B Pottawatomie Co. $2,067 — to Reed & Wheelock, Clay Center, 2 bridges F.A.P. 282-C Labette Co. $11,536—to E. L. Parsons & Sons, Gridley, bridge F.A.P. 30-B Lyon Co. $2,693. Grand total $165,470. Noted Jan. 14 and 21, under "Streets and Roads."

Maryland—State Roads Comn., Baltimore, G. C. Uhl, chn., substructure, approaches for proposed bridge over Monocacy River, Contr. F-159-57, Frederick Co., to Forbes-Murphy Contg. Co., 326 St. Paul St., Baltimore, $36,684—concrete floor for double 102 ft. more or less span bridge (now under construction), Contr. A-118-64, Allegany Co., to Boatwright, Russell & Linton, Manassas, Va., $3,290—concrete floor for single 86 ft. 6 in. span. bridge (now under construction), Contr. A-119-62, Allegany Co., to G. F. Hazelwood, Cumberland, $2,055. Grand total $42,029. Noted Feb. 4 and Jan. 16 respectively.

Maryland—State Roads Comn., Baltimore, double span steel girder bridge with concrete floor over Fishing Creek, on road from Frederick to Thurmont, Contr. F-176-57, Frederick Co., to L. R. Waesche & Sons, Thurmont, $16,530. Noted Sept. 3.

Bridges (Continued)

Michigan—H. G. Oakes, div. engr., Plymouth. R. Br. 1 of 38-13-24, 75 ft. span, 2 rein.-con. counterfort type abutments, steel deck girder, rein.-con. floor, two 2½ ft. sidewalks, 22 ft. roadway, Jackson Co., for State Hy. Comn., Lansing, Contr. 2, to Lackawanna Steel Constr. Corp., Walden Ave., Buffalo, N. Y., $2,423; Contr. 3, to J. Leach, Jr., Saginaw, $10,400.

Wash., Bellingham—State Hy. Dpt., Olympia, 330 ft. rein.-con. girder bridge, 12th St., to Lindstrom & Feigeman, Railway Exch. Bldg., Portland, Ore., $24,049. Noted Jan. 21.

Wash., Seattle—King Co., concrete trestle near Juanita on Lake Washington Hy., to Gustafson & Olson, 8046 Corliss Ave., $34,490. Noted Feb. 4.

Wyoming—State Hy. Comn., Cheyenne, 180 ft. steel bridge, approaches over Greybull River, Big Horn Co., to W. P. Roscoe, Billings, Mont., $18,370—7 treated timber bridges, Fremont Co., to Lyall Landreth, Wheatland $9,651—1 timber and 2 steel bridges, Fremont Co., to Morrison-Knudsen Co., Boise, Idaho, $31,341. Grand total $59,362.

STREETS AND ROADS

PROPOSED WORK

Oregon—State Hy. Dpt., Salem, program for 1932, includes grading, widening, bituminous macadam paving, oiled macadam paving, graveling, resurfacing non skid pavement 558.41 mi. roads, $2,938,540—80,000 cu.yd. rock for maintenance and betterment $117,000—18 bridges $887,500. Total $3,943,040. R. A. Klein, Salem, state hy. engr.

BIDS ASKED

Alabama—Mar. 10, by State Hy. Comn., Montgomery, concrete, bituminous concrete, rock asphalt or sheet asphalt paving 266,000 sq.yd. Mobile-Wilmer Rd., Federal Aid Project 210, Mobile Co. State will furnish portland cement for pavement f.o.b. cars on sidings in vicinity of project. L. G. Smith, hy. dir.

California—Mar. 2, by C. H. Purcell, engr. State Hy. Comn., Sacramento, grading, oil treated crushed gravel or stone surfacing 19.5 mi. road between Shavers Summit and Desert Center, Riverside Co.

Illinois—Mar. 9, by State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, concrete bituminous filled brick on concrete, bituminous concrete (fine or coarse aggregated type) on concrete surfacing 1.5 mi. Route 4, Sect. 7 x 20 ft., Livingston Co.—0.52 mi. Route 4-A Sect. D-Y, 18 and 20 ft. Will Co.—0.32 mi. Route 5-Sect. 14X 18 ft., 0.37 mi. Route 5, Sect. 15X, 9 ft., both Boone Co.—0.35 mi. Route 53, Sect. 535, 20 ft. Will Co.—0.44 mi. Route 55, Sect. 552-X DuPage Co.—0.15 mi. Route 59, Sect. 106-X, 20 ft. Lake Co.—7 mi. Route 60, Sect. 116, 20 ft.—0.59 mi. Route 173, Sect. 131-2X, 18 ft., both McHenry Co.—0.14 mi. Route 71, Sect. 116-7X 18 ft. De Kalb and Kane Counties—5.62 mi. Route 92, Sect. 139—7.68 mi. Route 92, Sect. 140, both 18 ft. Bureau Co.—6.16 mi. Route 92-A, Sect. 106—6.55 mi. Route 95-A, Sect. 107, both 18 ft. Hancock Co.—6.78 mi. Route 116 and 116-A, Sect. 103, 18 ft. Woodford Co.—5.86 mi. Route 121, Sect. 109, 20 ft., Tazewell and Logan Counties—4.98 mi. Route 121, Sect. 110, 20 ft., Logan Co.—4.91 mi. Route 122, Sect. 126-X, 18 and 20 ft., Tazewell Co.—1.68 mi. Route 121, Sect. 138, 20 and 40 ft., Macon Co.—3.54 mi. Route 127, Sect. 108, 18 ft.—5.36 mi. Route 127, Sect. 110, 9 and 18 ft.—0.25 mi. Route 160, Sect. 139-X, 18 ft., all Bond Co.—8.79 mi. Route 150, Sect. 132, 18 ft. Union Co.—0.65 mi. Route 173, Sect. 136-S, 20 ft. Lake Co.—grading, drainage structures 5.56 mi. Route 95, Sect. 123-A, Fulton Co. F. T. Sheets, hy. engr.

Ill., Vienna—Feb. 29, by Bd. Supervs. Johnson Co., traffic bound surface course surfacing 1.5605 mi. Sect. L-G, M.F.T., 16 ft. G. H. Baker, c/o State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, engr. co. roads.

Iowa—Mar. 1, by State Hy. Comn., Ames **(F.A.P. means Federal Aid Project and P.R. Primary Road)**, grading, drainage structures, paving 9.428 mi. P.R. 3 from Donnelson east, Lee Co.—4.561 mi. P.R. 2 from Knoxville east, F.A.P. 7—3.874 mi. P.R. 2 east of Knoxville, F.A.P. 75—3.331 mi. P.R. 2 from Mehaska Co. Line west, F.A.P. 336, all Marion Co.—1.694 mi. P.R. 14, from Corydon north, F.A.P. 237, Wayne Co.—grading 8.162 mi. P.R. 14 from Marion Co. Line southeast, F.A.P. 63-E, Lucas Co.—5.131 mi. P.R. 72 from Dows west, F.A.P. 343, Wright Co.—riprap on Road 48 north of Red Oak, bridge approach protection, incl. 1,150 cu.yd. riprap, F.A.P. 729, Montgomery Co.

Kansas—Mar. 4, by State Hy. Comn., Court House, Ottawa, grading, culverts, concrete surfacing 7.113 mi. K-33, Federal Aid Project 352-E Franklin Co.; grading, culverts 6.06 mi. K-39, Federal Aid Project 271-D, Bourbon Co. W. V. Buck, Topeka, hy. engr.

Kansas—Mar. 5, by State Hy. Comn., Court House, McPherson **(P. means Project)**, sand gravel resurfacing 14.2 mi. P. 77-16-7543—13.2 mi. P. 15-16-7553—8 mi. P. 4-13-7555—8.4 mi. P. 4-14-7556, all Dickinson Co.—2.1 mi. P. 57-2-7544 Morris Co. — 19 mi. P. 57-1-7545 Geary Co.—7.7 mi. P. 50S-25-7546—4.5 mi. P. 50S-27-7547—14.9 mi. P. 15-12-7554—5.4 mi. P. 50S-26-7557, all Marion Co.—7 mi. P. 50S-28-7548 Chase Co.—20.6 mi. P. 36-24-7549—10.4 mi. P. 36-23-7550—11.4 mi. P. 36-22-7551—7.2 mi. P. 15-22-7552, all Washington Co. W. V. Buck, Topeka, hy. engr. Noted Feb. 18.

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Kan., Kansas City—Mar. 7, by Wyandotte Co., c/o W. Beggs, clk., concrete surfacing 5 mi. road at intersection of Espenlaub (or 18th St.) Rd. and Shearer Rd. to Southwest Blvd. of State Hy. 10. O. K. Williamson, Court House, co. engr.

Maine—Mar. 1, by State Hy. Comn., Augusta, gravel surfacing 3.14 mi. Project 126-B, Porter—concrete paving 7.12 m b mb mb hm hm h 104-B, in Pittsfield, Detroit and Palmyra—4.89 mi. Project 140-A, Clinton—8.66 mi. Project 135-B, Gorham and Standish—5.93 mi. Project 110-G, Carmel and Hermon.

Maryland—Mar. 1, by State Roads Comn., Baltimore, G. C. Uhl, chn., macadam paving 3.77 mi. Ho-106-32 Howard Co.—gravel surfacing 1.12 mi. SM-89-84 St. Mary's Co.—sheet asphalt paving 0.24 mi. Contr. BC-112-72 Baltimore City; adv. E. N.-R. Feb. 25.

Michigan—Mar. 2, by A. L. Burridge, div. engr., Cadillac, grading, drainage structures 2.462 mi. F067-27C-1 and 3.731 mi. F067-31C-1, Osceola Co., for State Hy. Comn., Lansing.

Nevada—Mar. 2, by State Hy. Dpt., Carson City, grading, graveling 27.59 mi. road from Wells east to foot Pequop Summit also from Wells 3 mi. north, Elko Co. S. C. Durkee, state hy. engr.

Nevada—Mar. 9, by State Hy. Comn., Carson City, grading, graveling 13.65 mi. road from Hawthorne to point 13 mi. east, Mineral Co.—11.15 mi. road between Hoye and bulkhead, Lyon Co., $100,000—18.22 mi. road between Dunphy and Eureka-Elko Co. line, Eureka Co., $130,000. S. C. Durkee, state hy. engr.

New Jersey—Mar. 9, by State Hy. Dpt., Trenton, manufacturing, delivering, erecting steel mats required for deck highway structure and for concrete deck, concrete sidewalks, grading, draining, railings, and surface pavements for ramp approaches Jersey City and Kearny, Hudson Co. and city of Newark, for Sects. 2 to 8 (inclusive) Route 25, Connecting Link. Essex Co., A. L. Gtover, ch. clk.; adv. E. N.-R. Feb. 25.

Ohio—O. W. Merrell, dir. hys., Columbus, cancelled bids received Feb. 16, brick paving, incl. furnishing, delivering brick, 2.586 mi. Sect. "B-2" Lancaster-Kirkersville Rd., Fairfield Co., $106,495; 0.528 mi. Sect. "A" Alliance-Minerva Rd., Stark Co., $26,990. Noted Feb. 11.

Ohio—Mar. 4, by O. W. Merrell, dir. hys., Columbus, drainage structures, widening present concrete paving 1.345 mi. Sects. "A" and "B" Minerva-Sandyville Rd., Carroll Co., $11,725; concrete paving 1.147 mi. Sect. "L-3" Delaware-Mt. Gilead Rd., Delaware Co., $27,483—3.288 mi. Sects. "K-1" and "J" Toledo-Angola Rd., Fulton Co., $73,959 — 1.929 mi. Sect. "J-2" Xenia-Fairfield Rd., Greene Co., $71,642—1.319 mi. Sect. "Rendville" and "Corning" (North), New Lexington-Athens Rd., Perry Co., $75,484—2.714 mi. Sect. "R" Chagrin Falls-Greenville Rd., Trumbull Co., $48,624—1.4 mi. Sect. "J" Cleveland-Sandusky Rd., Lorain Co., $81,873—0.46 mi. Sect. "G" Delaware-London Rd., Union Co., $11,235—0.373 mi. Sect. "Millville" Millville-Oxford Rd., Butler Co., $16,861—brick paving, incl. furnishing brick 1,703 mi. Sect. "B" East Akron-Massillon Rd., Summit Co., $66,095.

Ohio—Mar. 4, by O. W. Merrell, dir. hys., Columbus, concrete paving 3.75 mi. Sect. "W" St. Marys-Ft. Wayne Rd., Auglaize Co., $80,226—1.109 mi. Sect. "J" Cleveland-Sandusky Rd., Lorain Co., $59,343—brick paving, incl. furnishing, delivering brick, 1.335 mi. Sect. "D" Logan-Lancaster Rd., Hocking Co., $47,041—widening existing pavement and brick paving and bridge extension 2.028 mi. Sects. "F" and "G" Mt. Vernon-Coshocton Rd., Knox Co., $46,497—brick paving incl. furnishing, delivering brick 4.084 mi. Sect. "Q" Sidney-Versailles Rd., Shelby Co., $146,759.

Okla., Fairview—Mar. 7, by O. T. Corwin, clk. Custer Co., oil surfacing 22 mi. County Roads 9, 14 and 15, 18 ft. $90,000. E. C. Magruder, Fairview, engr.

Pa., Phila.—Mar. 1, by Bureau Hys., Dpt. P. Wks., City Hall Annex, F. H. Caven, dir., Schedule A, curbing and footway work (city to pay) in 1st, 2nd, 3rd, 5th, 6th and 7th Hy. Dists.—Schedule B, curbing and footway work (property owner to pay) in 1st, 2nd, 3rd, 5th, 6th and 7th Hy. Dists.—Schedule C, fabricated structural steel for Grays Ferry Bridge (No. 6) over Schuylkill River—Schedule D, fabricated structural steel smoke plates for Bridge 112, at 15th St. over main line of Reading R.R. tracks.

Texas—Feb. 29, by State Hy. Dpt., Austin, triple asphalt on caliche and waterbound broken stone base course surfacing 19.618 mi. Hy. 10, Brown Co. $150,000. L. H. Ehlinger, Brownwood, resident engr.

Texas—Mar. 1, by G. Gilchrist, state hy. engr., Austin, crusher run broken stone base course surfacing 30,580 cu.yd. Hy. 24, Job M-2-Z-3, Wise Co. $40,000.

Wash., Seattle — Comrs. King Co., Court House, bids about Mar. 2, concrete paving 1⅜ mi. Renton-Three Tree Point Rd.; 1¾ mi. Lincoln Ave. extension. T. D. Hunt, Seattle, co. engr.

Wash., Seattle—Mar. 11, by S. J. Humes, dir. Hys., Olympia, and Bd. P. Wks., G. W. Roberge, secy., Seattle, grading, regrading, sewers, watermains, concrete sidewalks, paving Highland Dr., Aurora Ave., Valley, Aloha, Ward, Prospect and Comstock Sts.

Wash., Tacoma—Feb. 29, by Comrs. Pierce Co., concrete paving 1.53 mi. Point Fosdick-Gig Harbor Rd., Lateral Hy. 11, 18 ft. $37,000. W. E. Berry, Tacoma, engr.

Wash., Tacoma—Mar. 7, by Pierce Co., Court House, concrete paving 1.65 mi. Puyallup-Lake-view Rd., 18 ft. $35,475. W. E. Berry, Court House, co. engr.

Wash., Yakima—Mar. 3, by Comrs. Yakima Co., concrete paving 2¼ mi. Lateral Hy. 16, $75,000. O. E. Brashears, Yakima, co. engr.

CONTRACTS AWARDED

California—State Hy. Comn., Sacramento, grading, asphaltic concrete and portland cement concrete surfacing 3.4 mi. road between Union Ave. and Stevens Creek, Santa Clara Co., to Union Paving Co., Call Bldg., San Francisco, $62,637; grading 13.9 mi. road between Cloverdale and Hopland, Sonoma and Mendocino Counties, to Granfield, Farrar & Carlin, 67 Hoff Ave., San Francisco, $463,254. Noted Jan. 21.

California—C. H. Purcell, engr. State Hy. Comn., Sacramento, grading untreated crushed gravel or stone surfacing 0.4 mi. road at Benbow Bridge approaches, Humboldt Co., to Rocca & Caletti, P. O. Box 243, San Rafael, $23,278. Noted Jan. 28.

Calif., Beverly Hills—City Council, grading, street lighting, asphaltic concrete paving 185,000 sq.ft. streets in Civic Center, to F. W. Teschke, 3127 Cahuenga Ave., Los Angeles, $27,620. Est. exceeds $25,000. Noted Jan. 28.

Calif., Glendale—City Council, grading, curbing, guttering, asphaltic concrete surfacing 10,750 sq.ft. Glendale Ave., to Southwest Paving Co., 712 Lonkershim Bldg., Los Angeles, $20,887. Est. exceeds $25,000. Awarded in January. Noted Jan. 7.

Calif., Stockton—B. L. Trahern city clk., to C. W. Wood, P. O. Box 1435, improving Harbor Service Rd., 1,589 cu.yd. excav at $0.10 per cu.yd., 2,851 cu.yd. fill embankment $0.20, 1,563 tons road gravel in place $1.35.

Calif., Stockton—E. Graham, clk. San Joaquin Co., to Pereira & Reed, 545 Roosevelt St., improving Flood Rd., 4,000 cu.yd. grading at $0.23 per cu.yd., 2,800 tons base course, at $1.31 per ton, 250 tons crushed rock $2.36, 110 tons rock chips $2.46, 90 tons pea gravel $2.21, 25 tons asphaltic oil $16, 60 bbl. fuel oil at $1.75 per bbl., seven 10 in. pipes $5 each.

Ill., Shelbyville — Shelby Co., grading, culverts, bridges 4.47 mi. Sect. 2A (MFT), to H. Riley, Shelbyville, $25,606.

Ind., Huntington—Improving Tipton St., to R. L. Harris, State Rd., Ft. Wayne. Est. $25,647.

Ia., Carroll — Carroll Co., grading Primary Road 46, to J. A. Carlson Constr. Co., 5181 Jackson St., Omaha, Neb., $25,551.

Kansas—State Hy. Comn., Garden City and Parsons **(F.A.P. means Federal Aid Project and K.P., Kansas Project)** to A. L. Cook, Ottawa, grading, drainage structures, culverts 31.863 mi. F.A.P. 359-B Finney Co. $75,260—to W. T. Hale, Topeka, gravel or chat surfacing 6 mi. K.P. 7522, $2,240; 12 mi. K.P. 7523 $6,084, both Coffey Co.—to Thogmartin & Reis, Ft. Scott, chats surfacing 3 mi. K.P. 7521 Neosho Co. $1,098, 10 mi. K.P. 7524 Greenwood Co. $4,320, 9 mi. K.P. 1249, $6,588, 3 mi. K.P. 7519 $1,050, 4 mi. K.P. 7520, $1,600, all Bourbon Co., 8 mi. K.P. 7525 Woodson Co. $3,264. Grand total $101,504. Noted Jan. 14.

Kansas—State Hy. Comn., Olathe **(F.A.P. means Federal Aid Project and K.P. Kansas Project)**, to Collins Bros., Leavenworth, sand gravel surfacing 6.467 mi. K.P. 1297 Nemaha Co. $5,828—to Cook & Cone, Ottawa, 9.5 mi. K.P. 1296 Douglas Co. $8,208—to F. Freeto, Pittsburg, 10.1 mi. K.P. 7527 Osage Co. $5,962—to Western Bridge & Constr. Co., 3867 Leavenworth St., Omaha, Neb., 8.5 mi. K.P. 7529 Marshall Co. $2,023; 4 mi. K.P. 1238, $1,904; 8.1 mi. K.P. 7528 $1,928; 6.597 mi. F.A.P. 409-B $4,672, all Riley Co.—to List & Clark, Kansas City, Mo., grading, drainage structures 12.169 mi. F.A.P. 278-F McPherson Co. $51,722—to R. G. Aldridge, 1609 Nebraska Ave., Kansas City, 8.494 mi. F.A.P. 441-A Marshall Co. $72,523; 1 mi. F.A.P. 184-A, Marshall Co. $4,013—to Jensen Constr. Co., Kimballton, Ia., 0.338 mi. F.A.P. 435-B Marshall Co. $1,200—to Reed & Wheelock, Clay Center, 5.013 mi. F.A.P. 441-B Pottawatomie Co. $46,909; 5.851 mi. F.A.P. 282-C Labette Co. $55,135—to A. L. Cook, Ottawa, section of 7.687 mi. F.A.P. 404-E Johnson Co. $41,788—to Brosnahan Bros., City Bank Bldg., Knasas City, Mo., 2.046 mi. F.A.P. 407-B Atchison Co. $31,638; grading, drainage structures, incl. 4 bridges portion of 7.687 mi. F.A.P. 404-E Johnson Co. $12,833 — grading, drainage structures, concrete surfacing 1.851 mi. F.A.P. 278-E McPherson Co. $46,246. Grand total $394,532. Noted Jan. 14 and 21.

Maryland—State Roads Comn., Baltimore, G. C. Uhl, chn., concrete paving 1.11 mi. Contr. F-157-54, Frederick Co., to M. J. Grove Lime Co., Lime Kiln, $29,930. Noted Jan. 28.

Maryland—State Roads Comn., Baltimore, G. C. Uhl, chn., sheet asphalt paving 0.95 mi. Contr. BC-110-74, Baltimore City, to Amer. Paving & Contg. Co., Menlo Dr. and W. M. R. R., Baltimore, $67,066. Noted Feb. 11.

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, concrete paving 0.88 mi. hy. along Front St. from Baltimore Ave. towards Franklin St. for East approach to Cumberland grade elimination, Contr. A-104-63, Allegany Co., to Cumberland Contg. Co., Cumberland, $69,155. Noted Oct. 1.

Michigan—A. L. Burridge, div. engr., Cadillac, grading, shaping, drainage, 20 ft. concrete paving 1.698 mi. F015-13C-1, Charlevoix Co., for State Hy. Comn., Lansing, to Remus Constr. Co., Remus, $41,551. Noted Jan. 7.

Streets and Roads (Continued)

Michigan—H. W. Hagaman, div. engr., 208 Kresge Bldg., Port Huron, grading, shaping, drainage, concrete paving 12.586 mi. FO44-25C-2, Lapeer Co., for State Hy. Comn., Lansing, to Middle West Roads Co., Flint, $266,643. Noted Jan. 7.

Michigan—H. W. Hageman, div. engr., 504 Eddy Bldg., Saginaw, widening existing grade and lengthening drainage structures, concrete paving 2.636 mi. and sheet asphalt paving 3.413 mi. FO73-29, Contr. 3, Saginaw Co., for State Hy. Comn., Lansing, to Hersey Gravel Co., Hersey. **$152,701.** Noted Jan. 28.

Nevada—State Hy. Dpt., Carson City, reconstructing portion hy. between Lower Virgin River Bridge and Mesquite, Clark Co., to Gibbons & Reed Co., Continental Bank Bldg., Salt Lake City, **Utah, $169,530.**

Ohio—O. W. Merrell, dir. hys., Columbus, traffic bound macadam paving 4.258 mi. Sects. "K" and "G-1" Cambridge-Coshocton Rd., Coshocton Co., to Cable Co., Inc., 1421 5th St. S. W., Canton, $45,772—drainage system along east side 1.651 mi. Sects. "A" and "A-1" Sandusky-Clyde Rd., Erie Co., to W. L. Johnson, Toledo, $15,515—new berms and ditches, paving V.S.P. and Corr. 1.P. along 6.307 mi. Sect. "J" and others, Akron-Canfield Rd., Portage Co., to M. B. Guran Coal & Contg. Co., 1075 River St., Akron, $20,756—concrete paving 1.912 mi. Sect. "A" Mt. Vernon-Mansfield Rd., Knox Co., and grading, drainage, 30 ft. brick widening 2.503 mi. Sect. "B-1" Mansfield-Ashland Rd., Ashland Co., to A. J. Baltes, Norwalk, $38,143 and $64,923 respectively—concrete paving 1.22 mi. Sect. "N" Fremont-Perrysburg Rd., Sandusky Co., to Modern Constr. Co., Fremont, $45,477—0.103 mi. Sect. "D-2" Toledo-Angola Rd., Williams Co., to J. A. Elder, Bryan, $2,469. Grand total $233,055. Noted Feb. 11.

Okla., Arapaho—Custer Co., grading, drainage structures 4.08 mi. County Road 1-A, 30 ft., to T. C. Ottinger, Hinton, $12,000, est. $25,000; 6.2 mi. County Rd. 4-A, 30 ft., to C. Merveldt, El Reno, $13,889 est. $25,000.

Oregon—State Hy. Comn., Salem, waterbound macadam paving 11.5 mi. Oregon Coast Hy., 24 ft., Lincoln Co., to I. L. Young, Worcester St., Portland, $85,475; grading 6.4 mi. Central Oregon Hy., 18 ft., Malheur Co., to Powell & Gillo, Portland, $60,210.

Tex., Dallas—For 2 in. (fine) asphaltic concrete on concrete paving Olive St., from Live Oak to Cochran St., and Phelps St. to Cochran and Cedar Springs Sts., to Central Bitulithic Co., Praetorian Bldg., $31,658. Est. $32,000.

Tex., Dimmitt—City, c/o A. M. Brownlee, mayor, curbing, guttering, rock asphalt and triple asphalt surface treating 17,500 sq.yd., to S. Shambaugh, Beaumont, $33,240. Noted Jan. 28.

Tex., Longview—Concrete paving 10 blocks 6th St. from Padon to Marshall Sts., Melton St. from Green to Mobberly St. and Young St. from Green to Mobberly Sts., to F. P. McElwrath, Corsicana, $34,740. Est. $35,000.

Washington—State Hy. Comn., Olympia, improving 2.126 mi. Whatcom Co., to Puget Sound Bridge & Dredging Co., 2929 16th Ave. S. W., Seattle, $55,938—2.521 mi. Yakima Co., to Redmon-Turner, Inc., 304 South 4th Ave., Yakima, $45,155—2.612 mi. Lewis Co., to Myers & Goulter, 3227 1st Ave. S., Seattle, $113,195—12.025 mi. Ferry Co., to M. J. Kuney Co., 419 Hutton Bldg., Spokane, $120,885—14.183 mi. Klickitat Co., to F. G. Redmon, 304 South 4th Ave., Yakima, $51,848. Grand total $387,021. Noted Jan. 21.

Wash., Port Orchard—Kitsap Co., constructing 2 mi. Marine Dr. Hy., to Halleran Bros., Seattle, $19,794; 3.5 mi. Long Lake-Port Orchard Rd., to Walker Constr. Co., Tacoma, $20,650. Noted Dec. 17.

Wash., Seattle—Kings Co., grading, concrete paving 7 mi. 1st Ave. S., to Northwest Constr. Co., 3950 6th St. N. W., Seattle, $149,003. Noted Feb. 2.

Wyoming—State Hy. Comn., Cheyenne, gravel surfacing 12.767 mi. road in Platte Co., to Marlin & Norman, Wheatland, $13,417—grading, drainage structures, surfacing 24.802 mi. Albany Co., to S. J. Groves, Billings, Mont., $30,885—gradnig, drainage structures 6.111 mi. Fremont Co., to Blanchard Bros., 1641 South Logan St., Denver, Colo., $22,594—16.192 mi. Freeport Co., to J. J. Dooling, 1316 St. Paul St., Denver, Colo., $57,413—10 mi. Natrona Co., to Taggart Constr. Co., Cody, Idaho, $6,215—grading, drainage structures, incl. 7 treated timber bridges 16.26 mi. Lincoln Co., to Morrison—Knudsen Co., Boise, Idaho, $69,842. Grand total $200,366.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

N. J., Deal—City Comrs. two 350 ft. jetties on privately owned beaches between Brighton and Roseld Ave. $60,000. J. Strollo, Long Branch, engr.

BIDS ASKED

Ill., East St. Louis—Mar. 10, by Bd. Comrs. East Side Levee & Sanitary Dist., J. D. Johns, pres., 217 Metropolitan Bldg., completing West Levee Project 12 from Millstadt Rd. to point 7,000 ft. southwardly Centreville Twp., incl. 137,000 cu.yd. earth fill, clearing, hauling. $90,000. E. F. Harper, c/o owner, ch. engr.

CONTRACTS AWARDED

Calif., Sacramento—Sacramento Co., raising, strengthening levees, requiring moving 621,000 cu.yd. material, to Frank Contg. Co., 260 California St., San Francisco, $48,997.

FEDERAL GOVERNMENT

PROPOSED WORK

Del., Delaware City—BRIDGE—U. S. Eng., Wilmington, movable bridge over Delaware City Branch Channel.

Fla., Bradentown—POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by H. L. Taylor, Times Bldg., St. Petersburg, and W. W. Potter, Real Estate Trust Bldg., Phila., **Pa.,** U. S. Post Office. $165,000. Noted Dec. 10.

Ind., Winchester—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., 1 story, basement, 50 x 90 ft., brick U. S. Post Office. $90,000. J. A. Wetmore, Wash., D. C., acting superv. archt.

Mass., Clinton—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. J. A. Wetmore, Wash., D. C., acting superv. archt.

Mich., Detroit — DREDGING — U. S. Eng., deepening rock cut portion Livingstone channel, Detroit River to 28 ft. incl. removing 2,045,160 cu.yd. rock and material.

Minn., Little Falls—WATER PIPE—Con. Q.M., Camp Ripley, ¾ mi 4- to 10-in. c.i. water mains, hydrants, gates, valves, etc. for Camp Ripley. **$6,145.**

Miss., Jackson—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., soon takes bids 5 story, basement, 132 x 152 ft., concrete, stone, steel, federal post office and court house, Capitol and West Sts. $850,000. Hull & Malvaney, Merchants Bank Bldg., archts. Gardner & Howe, Porter Bldg., Memphis, Tenn., engrs. Noted Oct. 22.

Mo., Trenton—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., concrete, brick, stone U. S. Post Office. $75,000. J. A. Wetmore, acting superv. archt.

N. H., Littleton—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., 1 story, basement U. S. Post Office. J. A. Wetmore, Wash., D. C., acting superv. archt.

N. Y., West Point—STOREHOUSE, etc.—Con. Q.M., West Point, 2 story, basement quartermaster store house and shops, $450,000; 2 story, basement stable and shed, $150,000; 2 story, basement, grade and high school, $240,000; 2 story, basement hospital addition, $225,000; 2 story, basement officers' quarters, $246,000; 2 story, basement barracks, $300,000; 2 story, basement, service department barracks, $250,000; and gas works, $200,000, all at Military Academy grounds. **Maturity indefinite.**

Pa., Milton—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by H. Sternfield, Architects Bldg., 17th and Sansom Sts., Phila., U. S. Post Office. Noted Jan. 21.

Pa., Waynesboro—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by Robb & Todd, 52 East High St., Carlisle, U. S. Post Office.

Rhode Island—BRIDGE—U. S. Eng., Custom House, Providence, bridge from Pawtucket to Crescent Park. $25,000 or more.

Tex., Randolph Field—GASOLINE SYSTEM—Con. Q.M. new bids soon furnishing, installing two 25,000 gal. steel storage tanks, 4 ton each, underground.

Va., Norfolk—QUARTERS, etc.—Spec. 6780—Yards & Docks, Navy Dpt., Wash., D. C., relocating and removing 9 quarters, 5 garages at Naval Operating Base.

Wash., Longview—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by Babb & Gould, and J. Graham, Dexter Horton Bldg., Seattle, 2 story, basement, 104 x 117 ft., stone, brick post office. $210,000.

Wis., Little Chute—DAM—U. S. Eng., Milwaukee, concrete dam, and removing 691 lin.ft. old timber dam on Fox River.

BIDS ASKED

Calif., Riverside—WATER TANK, etc.—Mar. 7, by Con. Q. M., March Field, 200,000 gal. steel water tank on 6-col. steel trestle with connecting pipe lines; 200,000 gal. concrete reservoir with c.i. pipe line connections, at March Field.

Conn., Newington—GARAGE—Mar. 8, by Vet. Bu., Arlington Bldg., Wash., D. C., 1 story, tile, brick, concrete garage, Building 3, addition at U. S. Veterans' Hospital.

D. C., Wash.—CONCRETE PAVING—Mar. 3, by D. Lynn, archt. Capitol, concrete paving on terrace on west approach of U. S. Capitol.

D. C., Wash.—REMODELING—Mar. 29, by Treas. Dpt. at office Sup. Archt., remodeling, extending U. S. Post Office. $4,000,000.

Illinois—EXCAVATING, etc.—Mar. 15, by Treas. Dpt. at office Sup. Archt., Wash., D. C., excavating, dredging 1,954,000 cu.yd. earth and 233,000 cu.yd. rock, place measurement from Marseilles Pool, between Morris and Channahon.

Ill., Marseilles—DAM—Mar. 18, by U. S. Eng., 1st Chicago Dist., Chicago, Marseilles Dam and appurtenant works on Illinois River; adv. E. N.-R. Feb. 25.

Ind., Whiting—POST OFFICE—Mar. 9, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted Dec. 10.

Ky., Camp Knox—BRICK—Mar. 14, by Con. Q. M., 50,000 hard building brick.

Mass., Camp Devens—THEATRE—See "Contracts Awarded."

Mich., Detroit—BOILER HOUSE, etc.—Mar. 14, by Treas. Dpt. at office Sup. Archt., Wash., D. C., boiler house, removing detention quarters.

Mich., Detroit — IMMIGRATION STATION, etc.—Mar. 14, by Treas. Dpt. at office Sup. Archt., Wash., D. C., immigration station, boiler house, remodeling detention quarters, and border patrol headquarters. $115,000. Noted Dec. 24.

Nev., Boulder City—GARAGES—Mar. 10, by Bureau Reclamation, Denver, Colo., one 20 car and two 12 car garages, concrete founds.

New Jersey—DREDGING—Mar. 18, by U. S. Eng., Wilmington, Del., 262,200 cu.yd. from Big Timber Creek; adv. E. N.-R. Feb. 25.

N. Y., Brooklyn—CABLE—Mar. 7, by Signal Supply Officer, Army Base, 58th St. and 1st Ave., cable.

O., Findlay—POST OFFICE—Mar. 11, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted Sept. 3.

Ore., Roseburg—HOME—Mar. 22, by Veterans Administration, Arlington Bldg., Wash., D. C., constructing buildings and utilities at Veterans Administration Home; adv. E. N.-R. Feb. 25.

Tenn., Memphis—BOOMS—Mar. 1, by U. S. Eng., McCall Bldg., two 155 ft. aluminum and steel alloy dragline booms. Noted Feb. 2.

Va., Norfolk—EXCAVATION—Mar. 7, by Treas. Dpt. at office Sup. Archt., Wash., D. C., excavation of wood piles constructing Buildings D and E, Marine Hospital.

Va., Norfolk—WHARF, etc.—Mar. 3, by U. S. Coast Guard, Headquarters, Wash., D. C., repairing wharf and 4 finger piers at U. S. Coast Guard Station Base 8, St. Helena.

Wash., Ellensburg—PUMPING PLANT—Spec. 531—Mar. 30, at office Bureau Reclamation, Ellensburg, Wipple Pumping Plant and appurtenant structures, and Wipple Pump Lateral, Sta. 21+15 to Sta. 35+40, Kittitas Div., Yakima Project, near here. F. W. Dent, acting comr.; adv. E. N.-R. Feb. 25.

Wash., Ellensburg—PENSTOCKS—Spec. 532—Apr. 4, at office Bureau Reclamation, Denver, Colo., furnishing, erecting in excavation and on concrete piers and anchors constructed by others, two 45 in. diam. plate steel penstocks, each 469 ft. in length of 3/16 in. plates and one 42 in. diam. plate steel discharge pipe with manifold connections, 2,100 ft. in length of 3/16 in. and ¼ in. plates for Wipple Pumping Plant, Kittitas Div., Yakima Project. P. W. Dent, acting comr.; adv. E. N.-R. Feb. 25.

Wis., Milwaukee—SAND, etc.—Mar. 3, by U. S. Eng., 5,000 tons sand; 10,000 tons gravel.

Wis., Waupin—POST OFFICE—Mar. 14, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office.

CONTRACTS AWARDED

Ark., Hot Springs—HOSPITAL—Treas. Dpt. at office Sup. Archt., Wash., D. C., hospital building and utilities, at U. S. Veterans' Hospital, to National Constr. Co., Tower Bldg., Wash., D. C., $1,023,000. Noted Jan. 28.

Calif., Mare Island—BATTERY OVERHAUL SHOP—Spec. 6431—Yards & Docks, Navy Yard, Wash., D. C., battery overhaul shop, substation, acid mixing plant at Navy Yard, to Bartlett & Hilp, 918 Harrison St., San Francisco, $145,000. Noted Dec. 24.

Calif., Sunnyvale—HELIUM BUILDING, etc.—Spec. 6706—Yards & Docks, Navy Dpt., Wash., D. C., helium and boiler plant building, helium storage structure, chimney, tunnel and gas holder found., to R. E. McKee, 108 West 6th St., Los Angeles, $64,300. Noted Jan. 21.

Calif., Sunnyvale—WATER DISTRIBUTION SYSTEM, etc.—Spec. 6705—Yards & Docks, Navy Dpt., Wash., D. C., water distribution and sewerage systems to Meyer Rosenberg, 1775 San Bruno St., San Francisco, $30,500. Noted Jan. 28.

Calif., Sunnyvale—WATER TANK—Spec. 6758—Yards & Docks, Navy Dpt., Wash., D. C., 200,000 gal. steel water tank on 100 ft. steel tower, at Naval Air Station, to Pittsburgh Des Moines Steel Co., Neville Island, Pittsburgh, Pa., $10,360. Noted Jan. 14.

Colo., Boulder—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, extending U. S. Post Office, to Busboom & Rauh, Watson Theatre Bldg., Salina, Kan., $70,000. Est. $113,100. Noted Jan. 14.

D. C., Wash.—AIR CORPS BARRACKS—Con. Q. M., Bolling Field, air corps barracks, to M. H. Sobel Co., 1st Natl. Bank Bldg., Detroit, Mich., $259,862. Noted Feb. 4.

D. C., Wash.—TEST BORINGS—Treas. Dpt. at office Sup. Archt., Wash., D. C., test borings for apex, to George Drilling Co., 17 West 121st St., New York, $395. Noted Jan. 28.

Fla., Hollywood—REPAIRING—U. S. Eng., Jacksonville, repairing jetties at entrance to Hollywood Harbor (Port Everglades), to Van Gordon Constr. Co., Jacksonville, $45,065. Noted Jan. 7.

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Federal Government (Continued)

Fla., St. Petersburg—HOSPITAL—Vet. Bu., Arlington Bldg., Wash., D. C., heating, lighting, plumbing, Veterans' Hospital, to J. J. Nolan & Co., Inc., 235 Court Ave., Memphis, Tenn., $200,399. Noted Feb. 18.

Mass., Boston — STEEL — Yards & Docks, Navy Dpt., 407,000 lb. steel, Navy Yard, to Carnegie Steel Co., Wilkins Bldg., Wash., D. C., at $0.04255 per lb.

Mass., Camp Devens — THEATRE — Con. Q. M., 1 story, 50 x 120 ft. theatre, day labor. Noted Feb. 4.

Mass., Middleboro—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Smythe Constr. Co., 1416 F St., N. W., Wash., D. C., $69,268. Noted Jan. 21.

Mass., Springfield—RETURN UNITS—Commanding Officer, Springfield Armory, return units, to Weinman Pump Mfg. Co., 290 West Spruce St., Columbus, O.

Mich., Frankfort — BREAKWATER and DREDGING—U. S. Eng., Milwaukee, Wis., breakwater and 125,000 cu.yd. dredging in Frankfort Harbor to Great Lakes Dredging & Dock Co., 216 West Water St., Milwaukee, Wis., $545,059. Noted Jan. 14.

Mo., St. Louis—CONDENSER, etc.—U. S. Eng., Federal Bldg., to Worthington Pump & Mchy. Co., 2 Park Ave., New York, 2-pass surface condenser $4,268, horizontal circulating pump $3,514, vertical circulating pump $2,835; 2 ejectors $782, motor driven condensate pump $634; to Griscom-Russell, 5437 Delmar Blvd., 2 feedwater heaters $1,154. Grand total $31,187.

N. Y., Canandaigua — GARAGE — Vet. Bu., Arlington Bldg., Wash., D. C., Garage Building 16, U. S. Veterans Hospital, to O. Frechette & Co., Tupper Lake, $18,542. Noted Jan. 14.

Okla., Norman—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., brick, to Christy-Dolph Constr. Co., Construction Industries Bldg., Dallas, Tex., $67,800 (300 days). Noted Dec. 31.

Ore., Portland—STEEL—Murch Bros. Constr. Co. (general contractors), Railway Bldg., St. Louis, Mo., 1,900 tons structural steel for federal office building, for Treas. Dpt., Wash., D. C., to Poole & McGonigle, 1650 Halsey St. Noted Dec. 17, under "Contracts Awarded."

Pa., Pittsburgh—MAIL HANDLING EQUIPMENT—Treas. Dpt. at office Sup. Archt., Wash., D. C., mail handling equipment in U. S. Post Office and Court House, to S. Olson & Co., 1238 North Kostner Ave., Chicago, Ill., $122,700.

Tenn., Memphis—GRAVEL, etc.—U. S. Eng., McCall Bldg., 850 cu.yd. gravel, to J. A. Denie's Sons Co., 373 Adams St., $1,700; 1,000 cu.yd. gravel, to Crow Creek Gravel & Sand Co., Forrest City, Ark., $2,780; 5,000 sq.ft. form lining boards, to P. A. Gates Lumber Co., 1253 South Bellevue St., $600. Grand total $5,080.

Tex., Fort Bliss—PUMP, etc.—Con. Q. M., deep well turbine pump, to Lane-Texas Co., 2nd Natl. Bank Bldg., Houston, $8,486; 12 in. pipe line, to C. Biggerstaff, 1606 Bassett Ave., El Paso, $5,763; pump house, to G. Beaudett, 1620 Myrtle Ave., El Paso, $1,095. Grand total $15,354. Noted Nov. 5.

Virginia—DREDGING—U. S. Eng., Norfolk, 23,633 cu.yd. in Nansemond River, Nansemond Co., to Norfolk Dredging Co., Campostella Wharf, Norfolk, at $0.2325 per cu.yd. Awarded latter part January. Noted Dec. 10.

T. H., Pearl Harbor—ENGINE and AIRCRAFT OVERHAUL SHOP—Spec. 6376—Yards & Docks, Navy Dpt., Wash., D. C., engine and aircraft overhaul shop at Naval Operating Base, to Newport Contg. & Eng. Co., Lee Hall, Va., $148,000. Noted Dec. 31.

FEDERAL POWER COMMISSION

Applications for License and Permits

Licenses

1190—Great Western Power Co. of California, 245 Market St., San Francisco, Calif., wants license transmission line in Plumas Co., affecting lands United States within Plumas National Forest.

1191—Sierra Pacific Power Co., Reno, Nev., wants license, transmission line in Washoe Co., affecting public lands and lands of United States within Tahoe Natl. Forest.

1192—Pacific Gas & Electric Co., 245 Market St., San Francisco, Calif., wants transmission line in Nevada Co., affecting public lands.

1193—City of Los Angeles, Calif., c/o Bd. Water & Power Comrs., Los Angeles, Calif., wants license transmission line in Los Angeles Co. affecting lands of United States within Angeles Natl. Forest.

1194—Pacific Gas & Electric Co., 245 Market St., San Francisco, Calif., wants license constructed transmission line in Nevada Co. affecting lands of United States within Tahoe Natl. Forest.

1195—Pacific Gas & Electric Co., 245 Market St., San Francisco, Calif., wants license partly constructed transmission line in Nevada Co. affecting public lands.

1196—L. Roycroft, Moose Pass, Alaska, wants license power project on unnamed stream on west shore of Upper Trail Lake, 3rd Judicial Dist., Alaska, within Chugach Natl. Forest.

1197—R. W. Curtis, Keokuk, Ia., wants preliminary permit power project on Des Moines River in Lee Co., Iowa and Clark Co., Mo.

RAILWAYS

PROPOSED WORK

Illinois and Wisconsin—Chicago, Milwaukee, St. Paul & Pacific R.R. Co., Union Station, Chicago, Ill., C. F. Loweth, ch. engr., plans expending about $5,500,000 during 1932, incl. $1,938,000 for rail program, $681,000 ballast, $860,000 bridges, $923,000 grade separations, incl. $500,000 job in Milwaukee, Wis., $280,000 track elevation in Evanston, Ill., $870,000 miscellaneous improvements.

Minnesota and Wisconsin — Minneapolis, St. Paul & Sault Ste. Marie R.R. Co., E. A. Whitman, ch. engr., Soo Line Bldg., Minneapolis, Minn., expending $1,500,000 during 1932, track beds, right-of-ways, crossings, maintaining rolling stock and stationary equipment in Duluth, Minn., and Superior, Wis.

Texas—Missouri Pacific Ry. Co., E. A. Hadley, St. Louis, Mo., ch. engr., granted permission to lay 35 mi. new rails on its Texas properties, largest portion being 25 mi. on south end of line between Brownsville and Houston, 8 mi. on International-Great Northern's north end and remaining 2 mi. on San Antonio, Uvalde and Gulf. $400,000.

GRADE CROSSINGS

PROPOSED WORK

Illinois and Wisconsin—See "Railways."

N. Y., Root—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, plans in progress bridge over new highway, Randall Station. To exceed $25,000.

N. Y., Sanford—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Trust Bldg., Cleveland, O., eliminating Oquaga Crossing on McClure-Oquaga Lake Rd., 3 mi. west of Deposit. $131,200. Pub. Serv. Comn. approved revised general plan and specifications.

N. Y., Tonawanda—New York Central R.R. Co., F. B. Freeman, ch. engr., New York, eliminating grade crossing Sheridan Dr. To exceed $25,000. Pub. Serv. Comn. adopted general plan submitted by railroad.

N. Y., Wheatland—Buffalo, Rochester & Pittsburgh R.R. Co., c/o Baltimore & Ohio R.R. Co., H. A. Lane, ch. engr., Baltimore, Md. ,eliminating grade crossing on Scottsville-Munford Hy. To exceed $25,000. Pub. Serv. Comn. approved specifications.

N. Y., White Plains—New York Westchester & Boston R.R. Co., subsidiary New York, New Haven & Hartford R.R. Co., E. E. Oviatt, ch. engr., New Haven, Conn., eliminating Gedney Way Crossing. To exceed $25,000. Hearings before Pub. Serv. Comn. to determine manner in which structure shall be altered to permit widening of highway bridge.

BIDS ASKED

N. Y., Binghamton—See "Contracts Awarded."

CONTRACTS AWARDED

N. Y., Binghamton—Delaware, Lackawanna & Western R.R. Co., G. J. Ray, ch. engr., Hoboken, N. J., authorized by Pub. Serv. Comn. to do work on grade separation, day labor. Not to exceed $56,290.

N. Y., Binghamton—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Trust Bldg., Cleveland, O., authorized by Pub. Serv. Comn. to do part work for eliminating Liberty Ave. grade crossing, day labor, not to exceed $21,590. Total cost $449,125. Noted Aug. 6, under "Contracts Awarded."

N. Y., Gainesville—Erie R.R. Co., G. S. Fanning, ch. engr., Cleveland, O., eliminating Warsaw-Gainesville State Hy. crossing, south of Rock Glen station, to Bates & Rogers, Standard Bank Bldg., Cleveland, O., $39,126. Est. $71,230. Noted Dec. 24.

Wisconsin—State Hy. & Unemployment Comns., Madison, constructing approaches to Kivlin Overhead, Dane Co., to J. O. Legreid, Stoughton, $14,614; Lover Lanes Overhead, Milwaukee Co. and East Forest Junction Overhead, Calumet Co., to R. E. Myers, 1466 North Oakland Ave., Milwaukee, $11,709 and $20,091 respectively; Greenfield Subway, Milwaukee Co., to O'Hara & Clark Co., Wauwatosa, $4,392; Silvernale Grade Separation, Waukesha Co., to Wegner Contg. Co., 2113 South Muskego Ave., Milwaukee, $7,028; Eland Junction Overhead, Shawano Co., to J. C. Basten, 1857 Willow Ct., Green Bay. $15,910; constructing Greene Bridge, Rock Co., to Lakeside Bridge & Steel Co., North Milwaukee St., Milwaukee, $16,210. Grand total $90,134. Noted Feb. 2.

DAMS

CONTRACTS AWARDED

Calif., Los Angeles—Bd. Supervs. Los Angeles Co., Flood Control Dist., M. B. Beatty, clk., 202 North Bway., San Gabriel Flood Control Dam 2, with gunite concrete facing, to Merritt, Chapman & Scott Corp., 720 Wilmington-San Pedro Rd., San Pedro, $1,690,264. Noted Feb. 25, under "Waterworks."

AIRPORTS

PROPOSED WORK

Ill., Chicago—Goodyear Tire & Rubber Co., C. E. Slusser, vice pres., 1144 East Market St., Akron, O., steel dirigible hangar, Talwa[illegible] Field. W. D. La Due, c/o owner, engr.

R. I., Warwick—State, Airport Comn., State House, Providence, administration building at State Airport. $25,000.

BIDS ASKED

Colo., Pueblo—R. Warburton, 1329 Claremont St., and associates, negotiating for site four-plane iron hangar and runways.

GRAIN ELEVATORS

PROPOSED WORK

Neb., Giltner—GRAIN ELEVATOR—Farmers Elevator Co., P. H. Hohnstein, mgr., sketches 30,000 bu. grain elevator.

BIDS ASKED

Tex., Krum—GRAIN ELEVATOR—See "Contracts Awarded."

CONTRACTS AWARDED

Tex., Krum—GRAIN ELEVATOR—R. L. Cole Co., c/o R. L. Cole, mgr., Krum, rebuilding 20,000 bu. d.c. grain elevator, rein.-con., recently destroyed by fire, day labor. Private plans.

POWER AND LIGHTING

PROPOSED WORK

New York—Elmira Water, Light & Railroad Co., Huelett Bldg., Elmira, gas distribution system in Montour and Dix; and electric distribution system in Wellsburg. Application made to Pub. Serv. Comn. for permit.

N. Y., Osceola—Niagara Lockport & Ontario Power Co., Electric Bldg., Buffalo, electric power line extensions in Lewis Co. Applied to Pub. Serv. Comn. for permit.

N. Y., Pamelia—New York Utilities, Inc., Watertown, electric power line extensions. Pub. Serv. Comn. granted permission to carry out construction.

Tex., San Antonio—San Antonio Pub. Serv. Co., 201 North St. Marys St., gas lines and underground conduits, extending natural gas lines and laying new and larger conduits, 12- to 36-in. pipe. $300,000. Private plans. Noted Jan. 21.

Washington—Puget Sound Power & Light Co., Stuart Bldg., Seattle, plans expending $25,000 mprovements, extensions in Marysville Dist., incl. $15,000 for substation, transformers and voltage regulators in Marysville, also plans line from Snohomish south to connect with Cathcart system, $3,000.

BIDS ASKED

N. Y., College Point—Feb. 29, by W. C. Martin, archt. and supt. School Buildings, Flatbush Ave. and Concord St., Brooklyn, completing, finishing electrical work for P. S. 129, 7th and 9th Aves., 129th and 128th Sts., for Bd. Educ., 500 Park Ave., New York.

PARKS AND SPORTS

PROPOSED WORK

Conn., Rockville — Town, L. H. Chapman, Chamber of Commerce, golf course and clubhouse. Est. $25,000. Engineer not appointed.

Ia., Cedar Rapids—Bd. Educ., C. D. Hedberg, secy., 716A Ave. E., purchased 6.5 acre tract for playground and athletic field, at 27th St. N.E. and B Ave. No plans for development prepared as yet.

Mass., Boston—City, Park Dpt., 33 Beacon St., public playground, at Old Callender Estate, Victory Rd., Ward 16. $30,000.

Mass., Holyoke—City, Dpt. P. Wks., municipal golf course. To exceed $25,000.

Mass., Woburn — Commonwealth of Massachusetts, Metropolitan Dist. Comn., Boston, beach and bath house at Horn Pond. To exceed $25,000.

Neb., Omaha—Western League Baseball Club, B. Burch, pres., plans by J. Latenser & Sons, 732 Peters Trust Bldg., stadium and athletic field, rein.-con. grandstand, 30th and Wirt Sts. $100,000.

N. H., New Ipswich — Appleton Academy, soon takes bids 1 story, basement, 60 x 85 ft., brick gymnasium, campus grounds. $25,000 or more. H. L. Meacham Associates, 120 Front St., Worcester, Mass., archts. Noted Oct. 8.

N. J., Singac — North Jersey Amusements, Inc., altering and remodeling amusement park. $25,000. E. M. Ellis, engr. and mgr. in charge design and construction.

N. Y., Jamaica—Bd. Educ., 500 Park Ave., New York, plans by W. C. Martin, Flatbush Ave. extension and Concord St., Brooklyn, 1 story, 26 x 85 ft. field house, Jamaica Ave. and Dexter Court. To exceed $25,000.

N. Y., West New Brighton—Dpt. Parks, W. R. Herrick, pres. Park Dpt., Arsenal Bldg., Central Park, New York, purchased 5½ acre site and plans improving same for park and playgrounds, Livingston Park. $110,000.

Parks **and Sports (Continued)**

Okla., Oklahoma City—City made final plans wading pool and bath house for McKinley Park. $25,000; wading pool and bath house for Oliver Park, **$25,000.** E. B. Smith, City Hall, engr.

BIDS ASKED

S. D., Sioux Falls—Mar. 15, by City Comrs., coliseum annex, 5th and Dakota Sts. Hugill & Blatherwick, Sioux Falls, archts. Noted Feb. 11.

CONTRACTS AWARDED

Conn., New London—Alfred Mitchel Woods Assoc., Inc., c/o Payne & Keefe, archts., 231 State St., 2 story, 35 x 90 ft. field stone field house, incl. 22 x 25 ft. garage, work shop and boiler room, to Oliver Woodworth Co., 36 Pearl St. Est. $25,000. Noted Feb. 4.

Conn., Windsor — Loomis Institute, N. H. Batchelder, master, 35 x 100 ft., brick gymnasium and athletic field on campus, to R. F. Jones Co., 15 Lewis St., Hartford. Est. $175,000. Noted July 30.

Kan., Kansas City—Spur & Saddle Club, c/o H. A. Stonebraker, archt., 85th St. and Mission Rd., Lenexa, brick, steel stable, to Reed McKinley, 5215 Garfield St., Kansas City, Mo. Est. $55,000. Noted Feb. 18.

N. J., Jersey City — Metropolitan Stadium Corp., c/o C. Ferrai, Roosevelt Hotel, New York, stadium, arena, and exhibition hall, to Cortland Constr. Corp., 18 East 41st St., New York. Est. $5,000,000. Noted Aug. 12, under "International Stadium Co." as owner.

N. Y., Coney Island (sta. Brooklyn)—Tilyou Realty Co., Steeplechase Park, general contract 34 x 43 ft. and 26 x 26 ft. concrete swimming pools, Surf Ave. and West 19th St., to Distone Contg. Co., at job or c/o owners.

HEATING AND VENTILATING

CONTRACTS AWARDED

Mass., Cambridge—City, heating and ventilating also plumbing in Rindge Technical High School, Bway. and Irving St., to T. J. Murphy & Co., 8 Walden St., $70,059 and $48,044 respectively; electrical work, to Barnes-Pope Co., 98 Brookline Ave., Boston, $93,100. Grand total $211,203. Noted Feb. 18, under "Contracts Awarded."

Pa., Pittsburgh—Stone & Webster, engrs., Union Trust Bldg., plumbing for Presbyterian and Eye and Ear Hospital, part of medical unit of University of Pittsburgh, to Weldon & Kelly Co., 1801 Locust St.; heating and ventilating, to Campbell, Huggins, Donat Co., 119 Myran Ave., electrical work, to Iron City Electric Co., 575 6th Ave. Noted Jan. 21.

UNCLASSIFIED

PROPOSED WORK

Fla., St. Petersburg—AQUARIUM—W. Topp, Old Forge, N. Y., plans by H. O. Mowers, 230 Genesee St., Utica, N. Y., 1 story, concrete block, stucco aquarium, at point just east of Children's playground at head of Municipal Pier on ground leased from City, for 15 years, after which time the building and contents become the property of the city. $15,000. Equipment $10,000, tanks, pumping equipment, filters, etc.

Mass., Cambridge—SERVICE STATION—Shell Eastern Petroleum Products, Inc., 141 Milk St., Boston, soon lets contract 1 story, concrete service station, Memorial Dr. and Magazine St. Private plans.
$25,000. Private plans.

Mass., Danvers—ICE HOUSES—A. V. Cimon, Endicott St., reconstructing timber houses recently destroyed by fire, Endicott St. $25,000-$30,000. Private plans.

Mass., North Adams—SUMMIT HOUSE—Mt. Greylock Comn., W. H. Sperry, 116 Pleasant St., plans by J. McArthur Vance, 28 North St., Pittsfield, 2 story, field stone summit house on Mt. Greylock. $25,000 or more.

N. J., Atlantic City—COMMUNITY DEVELOPMENT—Interstate Properties Corp., R. S. Harnsbeyer, 49 Wall St., New York, sketches by W. D. Foster, 25 West 45th St., New York, development of 3,000 acre plot of virgin land into 2 story, basement, brick, steel community house, residences, Atlantic Ocean front. $1,000,000. **Maturity indefinite.** Noted Feb. 18.

N. Y., Brockport—TELEPHONE SYSTEM—Rochester Telephone Co., 50 Stone St., Rochester, replacing telephone system with modern equipment. $80,000.

N. Y., New York—FOUNDATIONS—Guaranty Trust Co. of New York, 140 Bway., new foundaations for existing bank building to carry 5 additional stories, 35 Nassau St. $50,000. R. Marzar, 101 Park Ave., archt.

N. Y., New York—TELEPHONE IMPROVEMENTS—American Telephone & Telegraph Co., 195 Bway., plans to spend $330,000,000 this year for replacements and betterments to telephone properties and equipment additions on the Bell system.

Pa., Saxton—COAL CLEANING and SIZING PLANT—Broad Top Coal Operators Assn., Saxton, C. F. Zimmerman, pres., 1st Natl. Bank Bldg., Huntingdon, plans coal cleaning and sizing plant 4,000 tons daliy capacity, coal mined in this district, low ash and sulphur content, used mainly for metallurgical purposes. Committees investigating machinery and equipment. $1,500,000. Private plans.

Tex., Denton — ELEVATOR PLANT — Cole Mill, c/o R. Cole, Denton, elevator plant. Private plans.

Utah, Salt Lake City—SAFETY ISLES—City preliminary plans 12 to 20 safety isles at street car stops in business section. $30,000. H. Jeseen, city engr.

BIDS ASKED

Mass., Newton—SERVICE STATION—Shell Eastern Petroleum Products, Inc., 141 Milk St., Boston, taking bids 1 story, concrete, Beacon and Walnut Sts. $25,000. Private plans.

Mass., Somerville — SERVICE STATION — Standard Oil Co. of New York, Park Sq. Bldg., Boston, taking bids 1 story, concrete, Northern Artery and Greenville Sts. $25,000-$30,000. Private plans.

N. Y., Ithaca—ELEVATORS, etc.—Mar. 17, by Commissioner Dpt. Education, Education Bldg., Albany, electric elevator, electrical work, service connections at New York State College of Home Economics and Agriculture, Cornell University.

N. Y., New York—CONNECTIONS and TRACK BONDING—Mar. 8, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., furnishing, installing d.c. connections and track bonding for part Independent System of City-owned Rapid Transit Railroads, from 145th St. and St. Nicholas Ave., Manhattan Boro to Webster Ave. and 205th St., Bronx Boro.

N. Y., Saratoga Springs—TILE and MARBLE WORK—Mar. 3, by P. B. Noyes, chn. Saratoga Springs Comn., 376 Bway., ceramic tile and marble work, Washington Baths; adv. E. N.-R. Feb. 25.

N. Y., Windale—ELEVATORS—Mar. 9, by Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, electric elevators, Buildings 21, 22, 24, 25, 26, 27, 28 and 34, Harlem Valley State Hospital; adv. E. N.-R. Feb. 25.

CONTRACTS AWARDED

La., Monroe—FISH HATCHERY—Louisiana State Dpt. Conservation, R. S. Maestri, comr., New Court House, New Orleans, fish hatchery on Bayou De Siard and Black Bayou, to Nil Desperandum, Inc., Delhi, $19,950. Noted Nov. 26.

N. Y., Mount Vernon — PLUMBING — Bd. Educ., 60 South 3rd St., plumbing for George Washington High School, to J. Winkel, 86 Larchmont Ave., Larchmont, $21,386. Noted Nov. 26.

N. Y., New York—TREATED TIES—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., treated ties for use in Rapid Transit Railroads, Order 17, to Eppinger & Russell Co., 11 Park Pl., $38,735. Noted Feb. 2.

MATERIALS

PROPOSED WORK

WATER PIPE—**Tulsa, Okla.**—City soon takes bids 3,000 tons 6- to 12-in. c.i. water pipe. $78,000. H. A. Parker, City Hall, engr.

BIDS ASKED

PIPE and FITTINGS—**Pacific Grove, Calif.**—E. C. Hulbert, city clk., in market 2,300 ft. 2 in., 750 ft. 1½ in., 2,200 ft. 1¼ in., 9,000 ft. 1 in. c.i. pipe and 633 fittings.

CULVERT PIPE—**Iowa**—Mar. 1, by State Hy. Comn., Ames, entrance culvert pipe requirements for 1932, incl. 7,916 lin.ft. 15 in., 3,741 lin.ft. 18 in., 1,273 lin.ft. 24 in., 346 lin.ft. 30 in., and 115 lin.ft. 36 in. corrugated culvert pipe, concrete or clay culvert pipe for various counties f.o.b. destination.

TERRA COTTA PIPE—**Baltimore, Md.**—Mar. 2, by Bd. Awards, furnishing, delivering terra cotta and vitr. terra cotta sewer pipe to Bureau Sewers, Material Contr. 88. G. E. Finck, Municipal Bldg., sewerage engr.

CAST IRON PIPE—**Malden, Mass.**—Mar. 3, by Street & Water Dpt., City Hall, c.i. water pipe as specified.

PIPE—**Stillwater, Minn.**—Mar. 7, by Bd. Water Comrs., 1,400 lin.ft. 6 in. c.i. watermain pipe, 800 lb. fittings. H. S. Grove, engr. and supt.

ROAD OIL—**Deal, N. J.**—Mar. 24, by Comrs. Monmouth Co. (Freehold) 75,000 gal. road oil. J. Strollo, Long Branch, engr.

CHLORINE — **Alliance, O.** — A. H. Linerode, safety-service dir., bids about Mar. 15 chlorine for waterworks.

FABRICATED STRUCTURAL STEEL—**Phila., Pa.**—See "Streets and Roads."

CONTRACTS AWARDED

JOINT COMPOUND—**Oakland, Calif.**—East Bay Municipal Dist., 30 tons joint compound for c.i. pipe, to C. S. Noel (Hydraulic Development Corp.), 1 Front St., San Francisco, $4,470.

RAILS, BARS, etc.—**Stockton, Calif.**—City, railroad rails, angle bars and tie plates in connection with Belt Line R.R., to United Commercial Co., 234 Stuart St., San Francisco, $22,573.

PUMP—**Meriden, Conn.** — Furnishing new pump for Broad Brook Pumping Station, to Allis Chalmers Mfg. Co., West Allis, Milwaukee, Wis., $3,240. Noted Nov. 26, under "Waterworks."

CEMENT, etc.—**Chicago, Ill.** — Cook Co. Comrs., County Bldg., 20,000 bbl. high early strength cement and 750,000 bbl. portland cement, to Marquette Cement Mfg. Co., 140 South Dearborn St.; 20,000 gal. tar and asphalt, to Standard Oil Co. of Indiana, Whiting, Ind., at $0.0407 and $0.0737 respectively; 200,000 gal. S A street tar, to Barrett Co., 2800 South Sacramento Ave., $0.0998 per gal.; 200,000 gal. A.C.B. asphalt, to American Mexican Refining Co., 11 South La Salle St., $0.0767, 200,000 gal. road oil, to Seneca Petroleum Co., 439 West 33rd St., $0.0443, 60,000 tons crushed stone and 200 tons calcium chloride, to Material Serv. Corp., 33 North La Salle St., at $2.06 and $25.40 per ton respectively, 2,500 lin.ft. vitr. pipe and 2,500 lin.ft. corrugated iron pipe, to same company.

CRUSHED STONE, etc.—**Boston, Mass.**—City, Supply Dpt., P. A. Chapman, supt., furnishing crushed stone to various departments in South Boston, West Roxbury, Dorchester, Roxbury and Hyde Park, to West Roxbury Trap Rock Co., 10 Grove St., West Roxbury, at $1.25-$1.35 per ton; various departments in Brighton, City Proper 38 & City Proper 10, to Rowe Constr. Co., 1215 Centre St., West Roxbury, $1.40-$1.50; furnishing crushed stone as required to various departments in East Boston and Charlestown, to Malden Crushed Stone Co., Bway., Malden, at $1.15; furnishing bank gravel and sand to various departments in South Boston and East Boston, to Boston Sand & Gravel Co., 88 Broad St., at $0.80 to $0.90; Charlestown and Brighton, to J. H. McNamara, Inc., 298 Harvard St., Brighton, at $0.69 to $0.80; West Roxbury, Dorchester, Hyde Park and City Proper 10, to Highland Sand & Gravel Co., 270 Baker St., West Roxbury, at $0.65 to $0.85; Roxbury and City Proper 8, to Geo. H. Noone Sand & Gravel Co., 353 Gardner St., West Roxbury, at $0.79 to $0.80.

PORTLAND CEMENT—**Boston, Mass.**—Supply Dpt., P. A. Chapman, supt., furnishing 8,000 to 9,000 bbl. portland cement, to various departments, to Portland Stone Ware Co., 80 Federal St., Boston, at $2.26 per bbl. Noted Feb. 4.

GRANITE INLET, APRON STONES, etc.—**Providence, R. I.**—City, Bd. Contr. & Supply, City Hall, granite inlet, apron stones as specified, to Dpt. P. Wks., to Blanchard Bros. Granite Co., Linwood, Mass. Est. $5,000 or more. Noted Jan. 21.

EQUIPMENT

PROPOSED WORK

MOTOR—**Napa, Calif.**—City, H. Thompson, clk., purchasing 7 ton road roller powered with 4-cylinder motor. H. A. Harrold, city engr.

DUMP TRUCK and HOIST—**Turlock, Calif.**—City purchasing 2 ton dump truck with mechanical hoist. H. Hall, city engr.

PUMP—**Billings, Mont.**—City furnishing, installing 5 m.g. pump at filtration plant. E. T. Hurdle, city engr.

WATER METERS, etc. — **Canton, O.** — City Council authorized Service Dpt., to purchase 2,000 new water meters for Waterworks Dpt., and sell 1,550 old meters, bids will be advertised immediately and purchase to be made about Apr. 1; Service Dpt. asked City Council for authority to purchase c.i. pipe for Waterworks Dpt. for year 1932.

ICE PLANT—**Columbus, O.**—Dpt. P. Welfare, 9th and Oak Sts., J. McSweeney, dir., soon takes bids ice plant, 20 tons p.d. ammonia system, creamery equipment, incl. 2 pasteurizers, 1 separator, 1 churn, 1 aerator, all 300 g.p.d.

ICE PLANT — **North Bay, Ont.** — W. A. Thompson, secy., North Bay, purchasing new artificial ice plant for new proposed rink. N. O. Hibel, Ltd., 307 Hespeler St., Preston, archt.

BIDS ASKED

TRUCK — **Reno, Nev.** — Mar. 15, by E. H. Beemer, clk. Washoe Co., 5 ton motor truck with cab.

ENGINE and HYDRANTS — **Oklahoma City, Okla.**—City in market 400 hp. gas, gasoline or diesel oil engine for water pumping plant; seventy 3-way fire hydrants, for Waterworks Dpt., J. L. Pruis, engr.

BOILERS, etc.—**Milwaukee, Wis.**—O. H. Henschel, consult. engr., 401 Commerce Bldg., taking bids boilers, stokers, pumps, steam flow meters, turbines, fittings for boiler plant, for Federal Pressed Steel Corp., 50 Keefe Ave.

STICKER or PLANER—**Parry Sound, Ont.**—H. J. Baldwin, Parry Sound, in market one 4-sided sticker or 4 sided planer, round head preferred.

WATER METERS—**Westmount, Que.**—A. F. Bell, secy.-treas., in market water meters. $1,000.

FOREIGN

Chili—Republic of Chili, Ministry for Promotion of Industry, Santiago, improvements, incl. highways, railroads, ports, irrigaton, to aMrel Crocquet Ce, Paris, France. Est. $20,000,000. Contractor to finance through extension of credit.

Cuba, Santiago de Cuba—Secretary Pub. Wks., Republic of Cuba, Havana, recommended $1,-

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Foreign (Continued)

000,000 appropriation for repairing streets damaged by earthquake.

England, London—London County Council voted to construct new bridge to replace Waterloo Bridge. $4,467,750.

U. S. S. R., Leningrad—Soviet Government, c/o Amtorg Trading Corp., 261 5th Ave., New York, plans in progress workers dwellings to house 200,000 persons. Project to be completed in current year.

Commercial Buildings

RESIDENTIAL

BIDS ASKED

N. J., East Orange—Metropolitan Building & Realty Co., 264 Main St., taking bids general contract 4 story, basement, brick, steel, 499 William St. $300,000. Warren & Warren, 31 Clinton St., Newark, archts. Noted Feb. 11.

Mass., Boston—See "Contracts Awarded."

Mass., Cambridge—See "Contracts Awarded."

Mo., Kansas City—See "Contracts Awarded."

N. J., Fort Lee—See "Contracts Awarded."

N. Y., New York—H. Mandel, 10 East 40th St., bids in fall or later, separate contracts 19 story, 19th St. and 7th Ave. To exceed $1,000,000. Farrar & Watmough, 10 East 40th St., archts. Noted May 7.

Vt., Vergennes—See "Contracts Awarded."

CONTRACTS AWARDED

Mass., Athol — Garbose Bros., Parker St., Gardner, reconstructng 4 story, basement, brick, steel hotel, plain found., to Bridean Constr. Co., Leominster. $150,000. Noted Jan. 14.

Mass., Boston — M. Peraner, 96 Beale St., Brookline, 4 story, basement, brick, steel, plain found., Seaver and Normandy Sts., separate contracts. To exceed $150,000. Private plans.

Mass., Cambridge—H. L. Niles, 44 School St., Boston, rebuilding 4 story, basement, brick, stone, steel, plain found., 881 Mass. Ave., separate contracts. $160,000. Private plans.

Mo., Kansas City — Universal Building & Constr. Co., c/o S. Benjamin, 714 Midland Bldg., 2 story, basement, 60 x 160 ft. Colonial style hotel, 2 story, 60 x 190 ft. dance hall, 1 story, 50 x 160 ft. garage, 1 story, 30 x 30 ft. service station, on U. S. 40. 1 mi. east of Blue Ridge Blvd., by day labor. $225,000. Transcontinental Highway Hotels & Amusement Co., lessee. V. J. De Foe, 114 West 10th St., archt.

N. J., Fort Lee—L. Ponsi, 1593 Center Ave., 6 story, basement, brick, steel, Mackay Dr., separate contracts in March. $200,000. Private plans.

N. Y., Brooklyn—E. Flagg, 111 East 40th St., taking bids separate contracts and materials 9 story apartment hotel, Ridge Blvd. and 72nd St. $1,000,000. Private plans. Noted Feb. 4.

Vt., Vergennes—Stevens House, Main St., reconstructing hotel, recently destroyed by fire, separate contracts. $150,000. F. L. Austin, 240 College St., Burlington, archt.

CLUBS

PROPOSED WORK

Conn., New Britain—Y. M. C. A., Bd. Directors, sketches by Perry & Bishop, 17 Court St., 4 story, 150 x 250 ft., brick, steel, rein.-con. recreation unit. $550,000. **Maturity 1933.** Y. M. C. A. Architectural Bureau, 347 Madison Ave., New York, superv. archts. Noted Jan. 28.

Mass., Canton—Blue Hill Masonic Building Assn., J. F. Stone, pres., 62 Sherman St., Masonic Temple, Washington St. $150,000. **Maturity in spring.** Architect not appointed.

N. J., Jersey City—Ukranian Home of Jersey City, Inc., S. Jewusiak, pres., 77 Morris St., revised plans by C. I. Goldberg, 921 Bergen Ave., 2 story, basement, brick, steel club house, Fleet St. $150,000. Larger project abandoned. Will go ahead with smaller project if funds are secured. Noted Dec. 10.

N. J., Sayreville—White Eagle Club sketches 2 story, basement, brick, steel club house, Main St. $150,000.

N. J., Teterboro—Meadow Golf Country Club, L. G. Mitten, mgr., Williams Ave., altering and constructing 2 story, brick, steel golf club addition and improving 2 golf courses, Williams Ave. $150,000. **Maturity soon.** Architect not appointed.

BIDS ASKED

N. J., New Brunswick—A. Merchant, archt., 1 Elm Row, taking bids general contract 2 story, basement, 75 x 115 ft., brick, steel, club addition, for B. P. O. E. No. 324. 40 Livingston Ave. $150,000. S. Shaw & Co., 24 Commerce St., Newark, structural engrs. Noted Feb. 18.

CONTRACTS AWARDED

N. J., Newark—J. Centanni, archt., 142 Market St., general contract 2 story, basement, 60 x 100 ft., brick, steel club house, Sumner Ave. and D'Auria St., to J. Illaria, 215 Mount Ampre Parkway, Bloomfield, for Italian Catholic Union Holding Co., J. Soriano, in charge, 93 Bloomfield Ave. $150,000. Noted Jan. 14.

HOSPITALS

PROPOSED WORK

Calif., Alta Loma—Upland Sanatorium Corp., 1601 North Wilcox Ave., Los Angeles, H. H. Johnson, pres., plans by E. C. and E. W. Taylor, 803 West 4th St., Los Angeles (1st unit) 3 story, 6 story tower, rein.-con. sanatorium, incl. private bath room on each floor, 2 elevators, radios, operating rooms, nurses' quarters, near here. $250,000. Noted Dec. 31.

Conn., New Britain—City, Bd. Directors New Britain General Hospital, 92 Grand St., isolation unit, Hospital Grounds. $150,000. Architect not appointed.

Ill., Waukegan—City, Hospital Comn., City Hall, H. Black, chn. building com., emergency hospital. $150,000. **Maturity in late spring.** Architect not appointed.

Me., Milo—McNaughton Hospital, c/o Crowell & Lancaster, archts., Eastern Trust Bldg., Bangor, altering and constructing 2 story, basement, brick, timber hospital addition. $150,000.

Mass., Gloucester — Gilbert Hospital, 298 Washington St., soon takes bids superstructure 3 story, basement, brick, steel hospital annex, plain found., Washington St. $150,000. Phillips & Halloren, 191½ Main St., archts. Noted Oct. 1, under "Contracts Awarded."

Mass., North Reading — Commonwealth of Massachusetts, Dpt. P. Health, remodeling and equipping administration building at State Sanatorium. $150,000. Architect not appointed.

Mass., Revere—Commonwealth of Massachusetts, Metropolitan Dist. Comn., Boston, relief hospital at or near Bath House. $150,000.

Mass., South Harwich—H. Adams, c/o R. C. Cameron, 1011 Hyde Park Ave., Hyde Park, plans by F. H. Richenbury, 75 Augustas Ave., Roslindale, 3 story, basement, brick hospital, plain found. $150,000.

Mass., Worcester—Worcester City Hospital, C. A. MacIver, supt., plans by Stevens & Lee, 45 Newbury St., Boston, addition to hospital, Chandler and Queen Sts. $150,000 or more.

N. H., Manchester — Elliott Hospital, J. B. Smith, chn. Building Com., 83 Bay St., preliminary sketches by C. R. Whitcher, 814 Elm St., altering and constructing 3 story, basement, brick, hospital addition, Auburn St. $150,000.

N. J., Menlo Park—Bd. Freeholders Middlesex Co., Court House, New Brunswick, 4 story, basement, brick, steel, rein.-con. hospital. $750,000. **Maturity indefinite.** Architect not appointed.

N. J., Newton—Dpt. Institutions & Agencies, State Office Bldg., Trenton, plans by Div. Architecture & Constr., State Office Bldg., Trenton, tuberculosis hospital. $150,000. Project approved. **Maturity indefinite.**

BIDS ASKED

Conn., Waterford—Seaside Sanatorium State Tuberculosis Comn., Hartford, bids about Apr. 15, sanatorium, Goshen Sect. $200,000 appropriated. Cass Gilbert, 244 Madison Ave., New York, archt. Noted Dec. 3.

Nev., Reno—Mar. 16, by Trustees Washoe Co. Hospital, brick, concrete county hospital. $100,000 available for 1st unit. F. J. DeLongchamps, Gazette Bldg., archt. Noted Apr. 23.

CONTRACTS AWARDED

Pa., Darby—Hoffman-Henon Co., archts., Finance Bldg., Phila., 10 story, basement, 48 x 140 ft., 40 x 60 ft., rein.-con., brick, steel hospital, plain found., to J. McShane, 1610 North St., Phila. Est. $400,000. Noted Jan. 28.

Pa., Norristown—State Comrs., J. L. Hanna, secy., Harrisburg, 3½ story, basement administration building, two 34 x 60 ft. wings, brick, steel, plain found., at State Hospital, to McCormack Lenhan Co., 40th and Chestnut Sts., Phila., $150,000. Noted Feb. 4.

Wis., Wauwatosa — Bd. Supervs. Milwaukee Co., excavating, concrete and cement work for 4 story, 160 x 180 ft. nurses' home at Milwaukee County Institution, to Pacholski & Doligalski, 933 West Mitchell St., Milwaukee, $55,653; structural steel, to Milwaukee Bridge Co., 3282 North 34th St., Milwaukee, $42,498; ornamental and miscellaneous iron and bronze, to Badger Wire & Iron Wks., 2933 West Cleveland Ave., Milwaukee, $3,600; masonry work, to P. W. Bringe, 2524 North 3rd St., $63,327; cut stone, to Ingall Stone Co., Bedford, Ind., $17,790; sheet metal, kalomein and roofing, to Midwest Ventilating Wks., 123 East Pittsburg Ave., Milwaukee, $13,555; carpentry work, to M. Mravik, 2648 North 28th St., Milwaukee, $51,965; lathe, plaster, to Western Ornamental Plaster Co., $27,425; terrazzo, to Badge Terrazzo Co., 2225 North Humboldt Ave., $26,493; tile, to Cafemeyer Bros., 322 West Juneau Ave., $9,653; marble, to Northwestern Marble 27th Ave. S. and 27th St., Minneapolis, Mi $7,998; elevator, to S. Heller Elevator Co., North Milwaukee St., Milwaukee, $9,946; e trical work, to Stenz Elevator Co., 924 No Edison St., Milwaukee, $61,322; heating, Grassler & Gezelshop, 816 North 3rd St., M waukee, $19,368; ventilating, to Downey H ing Co., 1739 West St. Paul Ave., Milwauk $4,749; plumbing, to L. R. Schmaus, 1 North 3rd St., Milwaukee, $29,900. Grand t $400,242. Noted Feb. 4.

CHURCHES

PROPOSED WORK

Mass., Barnstable—West Barnstable Cong gational Church Society, c/o E. Goodell, arch 234 Boylston St., Boston, 1 and 2 story, ba ment, brick, stone church, plain found., W Barnstable Rd. $150,000.

Mass., East Cambridge—St. Francis of Assi F. Bolli, pastor, 42 Fourth St., sketches by R. Gorrani, 175 Green St., Worcester, 1 story, ba ment, brick church, 4th St. $150,000 or mor

Mass., New Bedford—First Primitive Methodist Church Society, F. Dracup, pastor, 358 Summer St., sketches by E. F. Tirrell, 10 Devonshire St., Boston, 1½ story, basement, brick church, plain found., Highland and Topham Sts. $150,000. Noted Jan. 21.

Mass., New Bedford — United Church, D Plomer, 28 Mapleview Terrace, church. $150,000-$200,000. Architect not appointed.

Mass., Springfield — Wachague Community Church Society, G. V. Stryker, pastor, 39 Mapledale St., raising $150,000 or more funds church, Villa Heights. Architect not appointed.

Mass., Westwood—St. Margaret Mary's Roman Catholic Church, W. E. Tierney, pastor, 155 Washington St., sketches by J. C. Kelley, 38 Chauncy St., Boston, 1 story, basement, brick, stone, plain found., High St. $150,000 or more.

N. H., Dover—St. Charles Roman Catholic Parish, O. N. Desmarias, 11 Grove St., rebuilding 1 story, basement church, 3rd St. $150,000. Architect not appointed.

N. J., Athenia—St. Joseph's Roman Catholic Church, 2 story, basement, brick, steel church, school, Spier Ave. $150,000. **Maturity late in fall.** Waeber & Davidson, 131 East 47th St., New York, N. Y., archts. Noted July 16.

N. J., Morris Plains — C. W. Bolton & Son, archts., Schaff Bldg., Phila., Pa., rejected bids general contract 1 and 2 story, basement, 65 x 90 ft., brick, steel church Speedwell and Hillview Aves. for Presbyterian Church of Morris Plains, 55 Park Pl. $150,000. **Maturity indefinite.** Noted Dec. 17.

N. Y., Ilion—Church of Annunciation, plans by E. J. Berg, 704 Washington St., Utica, church. $300,000.

O., Cleveland—Heights Christian Church, A. J. Culler, pastor, 2422 Woodmere Rd., plans by J. W. Everhard, 9219 Clifton Blvd., 1 story, stone, steel, concrete church and educational buildings, South Moreland Blvd. and Winslow Rd. $160,000.

Pa., Erie—Mercyhurst College and Seminary, c/o Sisters of Mercy, 501 East Cooper Mill Rd., sketches by W. T. Monahan, 805 Palace Hardware Bldg., 2 story, basement, brick, stone chapel, East Cooper Mill Rd. $150,000.

Pa., Wilkes Barre—Owner, c/o G. W. Brooks, archt., 214 Smith St., Perth Amboy, N. J., church, administration building and dormitory, Catholic University Group. $4,000,000.

R. I., Auburn—St. Matthews Parish, J. F. Sulilvan, pastor, plans by A. J. Murphy, 25 Fenner St., Providence, brick, stone church and parochial school. $200,000.

Wis., Chippewa Falls—Zion Lutheran Congregation, S. H. Schreen, pastor, 110 East Grand Ave., brick, stone church.: $150,000. Architect not appointed.

BIDS ASKED

Me., Winthrop—St. Francis Xavier, J. McGowan, pastor, 1 story, basement, brick, stone, church, plain found., to W. V. Milton, Inc., 12 Winter St., Augusta. Est. $150,000. Noted Dec. 3.

Mass., Brookline — Harvard Congregational Church, W. W. Willett, 1514 Beacon St., bids about Mar. 1, reconstructing 1 story, basement, brick church, Harvard and Marion Sts. $200,000. Allen & Collens, 75 Newbury St., Boston, archts. Noted Jan. 7.

N. J., Jersey City—W. Neumann, archt., 26 Journal Sq., general contract bids about Mar. 1, altering 2 story, basement, brick, steel, Summit and Magnolia Aves., for Westminster Presbyterian Church, H. L. Wyatt, pastor, 304 Academy St. $150,000. Noted Jan. 28.

Pa., Elmhurst—F. F. Durang, archt., 110 West Dudley Ave., Westfield, bids about Apr. 15, general contract 3 story, basement, 50 x 100 ft. brick, steel mother house, plain found., for Poor Sisters of Jesus Crucified and The Sorrowful Mother. $200,000. Noted Jan. 14.

Churches (Continued)

CONTRACTS AWARDED

Md., Baltimore—St. Benedict's Roman Catholic Church, A. Luther, pastor, 2612 Wilkens Ave., 1 story, basement, brick, limestone, tile, concrete, Wilkens and Millington Aves., to Frainie Bros., 19 West Franklin St., $200,000.

N. J., Guttenberg—First Reformed Church, D. Reese, pastor, 326 24th St., general contract 2 stroy, basement, brick, steel church, Sunday school, Bergenline Ave., to Herring Bros., 236 31st St. **Est. $150,000.**

SCHOOLS

PROPOSED WORK

Calif., Beverly Hills—Bd. Educ, working plans completed by Architectural Dpt., Bd. Educ., W. E. Record, mgr., A. S. Nibecker, Jr., archt., Chamber of Commerce Bldg., Los Angeles, E. L. Ellingwood, heating and ventilating engr., group high school buildings, 241 Monroe Dr. $234,000. Noted Oct. 22.

Calif., Palo Alto—Palo Alto City School Dist. plans Junior High School. To exceed $200,000. Plans election to vote on bonds for same.

Conn., Clinton—Town, Bd. Educ., G. S. Carter, 2 story, basement, school. $150,000. Architect not appointed.

Conn., Hamden—Town, G. Williams, chn. building comr., sketches by R. W. Foote, 185 Church St., New Haven, 2 story, basement, brick high school, Dixwell Ave. $150,000 or more.

Ill., Springfield—Rt. Rev. J. A. Griffin, Catholic Bishop of Springfield, plans by J. W. McCarthy, 221 North La Salle St., Chicago, Catholic High School, 3 story, basement. $400,000. **Maturity in fall.**

Kan., Leavenworth — Bd. Educ., rebuilding high school, destroyed by fire. $150,000.

Mass., Chicopee—City, J. J. Desmond, supt. schools, Junior High School, Fairview Ave. and Springfield St. To exceed $150,000. Architect not appointed.

Mass., Gloucester—City, J. E. Parker, mayor, City Hall, high school, $200,000. Architect not appointed.

Mass., Groton—Groton School, E. Peabody, headmaster, plans by H. D. Chandler, 75 Newbury St., Boston, 3 story, basement, 50 x 100 ft., brick addition. $150,000.

Mass., New Bedford — St. John's Roman Catholic Church, M. J. Salvador, pastor, brick school. $150,000. Architect not appointed.

Mass., Newton—City, S. Weeks, mayor, 1337 Washington St., altering and constructing 2 story, basement, addition to Bigelow School, Arlington St. $150,000. Architect not appointed.

Mass., North Adams—City, G. C. Bowman, supt. schools, altering and constructing 2 story, basement, brick addition to Haskins School. $150,000. Architect not appointed.

Mass., Sheffield—Town, K. Ford, chn. Building Com., sketches by Haynes & Mason, Fitchburg, 2 story, basement, brick, stone high school, plain found. $150,000 or more. Noted Dec. 11, 1930.

Mass., South Hadley—Mt. Holyoke College, M. E. Worley, pres., sketches by G. F. Newton, 6 Beacon St., Boston, altering and constructing addition to Dwight Memorola Buliding. 150,000.

Mass., Springfield—City, D. R. Winter, mayor, 2 story, basement, school on "Sixteen Acres" Estate. $150,000 or more. Architect not appointed.

Mass., Turners Falls—Town, Bd. Selectmen, sketches by B. Dirks, 278 Main St., Greenfield, 2 story, basement, brick school. $150,000.

Mass., Williamstown—D. K. E. Fraternity, c/o A. Embury 2nd, archt., 150 East 61st St., New York, soon lets contract 3 story fraternity house at Williams College. To exceed $150,000.

N. H., Rye — Town, Bd. Educ., rebuilding Junior High School, recently destroyed by fire. $150,000. Architect not appointed.

N. J., Cranford—Bd. Educ., J. K. Cloud, pres., Holly St., sketches by H. B. Brady, 333 North Broad St., Elizabeth, 2 story, basement, brick, steel, rein.-con. school. $150,000. **Maturity in spring 1933.**

N. J., Cranford—Bd. Educ., J. K. Cloud, pres. Holly St., new sketches by H. B. Brady, 333 North Broad St., Elizabeth, 3 story, basement, brick, steel school addition, Union Ave. $400,000. Project to be voted on by taxpayers for bond issue this month. Noted Feb. 2.

N. J., Elizabeth—Bd. Educ., 417 South Broad St., plans Boys' Vocational School, 2 story, basement, brick, steel, rein.-con. $150,000. **Maturity about April.** Site not selected. Architect not appointed.

N. J., Leonia—Bd. Educ., new sketches by Hacker & Hacker, 201 Main St., Fort Lee, 2 story, basement, brick, steel, rein.-con. high school addition. $150,000. Noted Sept. 24.

N. J.,, Newton—Bd. Educ. sketches by Hacker & Hacker, 201 Main St., Fort Lee, and bids about Apr. 2, Junior High School, 2 story, basement, brick, steel. $150,000. Taxpayers will vote on bond issue in March. Noted Dec. 31.

N. J., North Haledon—Bd. Educ., Public School, 2 story, basement, brick, steel school. $150,000. **Maturity indefinite.** Architect not appointed.

N. J., Passaic—Bd. Educ., J. M. Gardner, secy., will not build School 3, 2 story, basement, brick, steel, rein.-con. $150,000. This corrects report in Jan. 28 issue.

N. J., Paterson — Bd. Educ., A. E. Patmas, pres., City Hall, 2 story, basement, brick, steel, rein.-con., Temple Hill section. $150,000. **Maturity indefinite.** Architect not appointed.

N. J., Rutherford—Bd. Educ., 54 Elliot Pl., sketches by E. S. Powers & Sons, engrs. and archts., 20 Branford Pl., Newark, reconstructing Park Junior High School, 3 story, basement, brick, steel, Park Ave. $150,000. Noted Jan. 21.

N. Y., Woodside—Bd. Educ., 500 Park Ave., New York, soon takes bids school, 108th Ave. and 156th St. $255,000. W. C. Martin, Flatbush Ave. extension and Concord St., Brooklyn, archt.

O., Cincinnati—St. Xavier College, vicinity of Parkway, administration building and college chapel.

O., Granville — Denison University, biology building, with laboratories, music building, auditorium. Gehron & Ross, 101 Park Ave., New York, archts. for general plan.

Ore., Portland—Bd. Educ. soon lets contract Irvington School, 2 story, basement, brick, cast stone or terra cotta. $275,000. G. H. Jones, Portland, archt.

Pa., Morton—Bd. Educ., Ridley Twp., A. S. Weldon, pres., Ridley Park, receiving competitive sketches from architects Junior High School, Swarthmore Ave. $150,000.

Pa., Scranton—Scranton School Dist., soon takes bids Junior High School, 3 story, brick, steel, concrete found. $1,500,000. T. Williams, Scranton Life Bldg., archt. and engr. Noted Dec. 3.

R. I., East Providence (br. Providence) — Town, J. R. D. Oldham, supt. schools, plans by Traficante & Niebuhr, 175 Tauntan Ave., brick additions to Arthur E. Platt School, Burnside Ave. and Bliss Grade School, Orlo Ave. To exceed $150,000. Noted Oct. 29.

R. I., East Providence (br. Providence)—Town plans by W. R. Walker & Son, 49 Weybosset St., Providence, 2 story, basement, brick, stone, steel addition to Junior and Senior High School, Bway. and Taunton Ave. $150,000 or more. Noted Oct. 22.

R. I., Newport — City, H. W. Lull, supt. schools, sketches by D. Shapiro, Globe Bldg., Fall River, Mass., altering and constructing 2 story, basement, brick school addition, Cranston St. $150,000.

R. I., Providence — City, P. Building Dpt., City Hall, sketches by T. J. Hill Pierce, City Hall, Senior High School, brick, steel, Mt. Pleasant Ave. $1,500,000.

R. I., Providence—Rhode Island School of Design, 11 Waterman St., sketches by W. T. Aldrich, 30 Newbury St., Boston, Mass., brick, stone museum unit. $150,000.

R. I., Warwick—Town, W. E. Sherman, supt. schools, plans by William R. Walker & Son, 49 Weybosset St., Providence, and takes bids in April Junior High School, 36 room brick, steel, rein.-con., Apponaug Sect. $475,000. Noted Oct. 15.

Tenn., Nashville—Fisk University gymnasium and girls' dormitory addition. To exceed $150,000.

Va., Salem—Roanoke College library, chapel. To exceed $150,000.

Va., Salem—Bd. Supervs. Roanoke Co., Garrison Wood, chn., high school. $227,000. Architect not appointed.

Wis., Beloit—Bd. Educ. plans by J. C. Llewellyn & Co., 38 South Dearborn St., Chicago, Ill., 3 story, basement, brick, steel high school addition. $450,000. **Maturity in summer.**

Wis., DePere—St. Mary's Catholic Congregation, c/o F. J. Peters, DePere, brick, rein.-con. school. $150,000. Architect not appointed.

BIDS ASKED

Calif., Arcata—State of California, c/o State Dpt. P. Wks., Sacramento, bids about Mar. 15, 3 story, rein.-con. training school at State Teachers College. $160,000. F. T. Georgeson, 6th and C Sts., Eureka, archt. Noted Dec. 31.

Ind., Lafayette—Mar. 20, by Purdue University, 2 story, basement, 60 x 230 ft., rein.-con., brick, steel, stone mechanical engineering college, on campus. $200,000. W. Scholer, 210 Wallace Bldg., archt. Noted Jan. 21.

Md., Baltimore—Feb. 26, by J. F. Eyring, archt., 808 South Conkling St., administration, auditorium and school buildings, each 2 story, brick, limestone, rein.-con., Conkling St., Highlandtown, for Sacred Heart Roman Catholic Church, J. M. Beierschmidt, pastor, 600 South Conkling St. Kubitz & Koenig, Emerson Tower, engrs.

Md., Salisbury — Mar. 1, by Smith & May, archts., Baltimore Trust Bldg., Baltimore, high school addition, incl. 2 story, 72 x 102 ft. gymnasium, 39 x 157 ft. wing, 2 story, 40 x 55 ft. connecting wing, all brick, cut stone, hollow tile, for Maryland State Bd. Educ. $150,000.

Mass., Jamaica Plain—Mar. 2 (extended date), by City, Dpt. School Buildings, 2 story, basement, brick, stone intermediate school, plain found., Walk Hill St., Francis Parkman Dist., $150,000. J. F. Cullen, 162 Newbury St., Boston, archt. Noted Feb. 18.

1932 BUDGET OF 45 CITIES

Reported in January, 1932; Thousands of dollars, 000 omitted

	Water works	Sewers and Disposal	Bridges	Streets and Roads	Grade Elimination	Buildings	Miscellaneous	Total
Birmingham, Ala	....	....	70	....	....	....	....	70
Montgomery, Ala	20	....	50	....	....	....	....	70
Phoenix, Ariz	210	95	290	....	....	1,500	339*	2,434
Los Angeles, Calif	11,950	4,975	3,190	3,472	....	....	4,494†	28,081
San Diego, Calif	2,800	....	....	....	....	....	....	2,800
Wilmington, Del	72	100	457	2,727	....	2,921	....	6,277
Chicago, Ill	5,000	9,175	4,535	7,500	....	....	....	26,210
Galesburg, Ill	....	15	....	125	....	....	....	140
Monmouth, Ill	....	300	....	....	....	....	....	300
Peoria, Ill	....	75	....	....	....	....	....	75
Anderson, Ind	250	100	25	....	....	160	20	555
Davenport, Iowa	6	33	15	60	....	....	....	114
Sioux City, Iowa	60	10	15	75	....	15	....	175
Louisville, Ky	200	3,000	....	550	3,000	3,000	....	9,750
Baltimore, Md	3,000	1,161	310	1,885	....	....	....	6,356
Detroit, Mich	....	....	500	....	150	286	....	936
Minneapolis, Minn	1,000	450	....	750	....	1,350	370	3,920
Duluth, Minn	100	735	100	50	....	150	....	1,135
St. Louis, Mo	1,000	1,000	1,200	1,500	....	6,000	500	11,200
Omaha, Neb	500	750	1,600	100	2,750	....	30	5,730
Akron, Ohio	200	....	500	....	....	....	....	700
Cleveland, Ohio	2,000	4,500	....	2,500	200	2,500	....	11,700
Columbus, Ohio	125	5,500	....	150	....	50	75	5,900
Oklahoma City, Okla	125	67	110	....	....	....	....	302
Tulsa, Okla	....	375	270	300	....	....	....	945
Portland, Ore	150	100	150	500	....	2,190	130	3,220
Salem, Ore	250	20	10	40	....	....	....	320
Allentown, Pa	40	300	140	120	....	....	....	600
Pittsburgh, Pa	1,509	97	300	1,254	....	....	....	3,160
Plymouth, Pa	....	....	....	76	....	....	....	76
Scranton, Pa	....	....	....	103	....	....	....	103
Tonawanda, Pa	50	....	....	....	....	....	....	50
Chattanooga, Tenn	75	200	....	50	....	....	....	325
Nashville, Tenn	360	....	....	212	....	....	....	572
Knoxville, Tenn	....	50	300	....	....	....	....	350
Amarillo, Tex	10	3	15	250	....	4	....	282
Dallas Fort Worth } Tex	1,500	2,500	....	5,000	....	....	4,000	13,000
San Antonio, Tex	100	75	50	200	....	1,341	250‡	2,016
Roanoke, Va	....	126	8	215	....	5	15	369
Norfolk, Va	129	77	19	113	....	200	....	538
Richmond, Va	200	....	....	1,000	....	3,000	....	4,200
Seattle, Wash	706	548	1,440	1,377	....	....	121	4,192
Tacoma, Wash	275	....	....	50	....	....	....	325
Wheeling, W. Va	3	9	2	114	....	5	....	133
Totals	33,975	36,521	15,671	32,418	6,100	24,677	10,344	$159,706

*Flood Control $339,000. †Flood Control $3,700,000. ‡Flood Control $150,000

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Schools (Continued)

Mass., Taunton—Feb. 29, by St. Mary's Roman Catholic Church, c/o J. I. Higgins, Borden Blk., Fall River, Monseigneur Coyle High School, 2 story, basement, brick, stone, 2 story, basement, brick, stone, plain found., Summer St. $150,000 or more. Noted Jan. 21.

Minn., Minneapolis — Mar. 3, by Bd. Educ., 305 City Hall, general contract 3 story, basement, 200 x 275 ft., brick, stone, rein.-con., Bway. N. E. between University Ave. and 4th St. $500,000. Architectural Dpt., c/o owner, archt. Noted Oct. 29.

Minn., Winona—Mar. 7, by Bd. Educ., A. H. Kressin, clk., general contract 2 story, basement, brick, steel, West Wabasha and Olmstead Sts. $200,000. Boyum Schubert & Sorenson, 117 West 3rd St., archts.

N. H., Durham—University of New Hampshire, E. H. Lewis, bids about Mar. 1, 3 story, basement, 2 wings, girls' dormitory, brick, stone, plain found., on campus. $175,000. E. T. Huddleston, Durham, archt. Noted Dec. 17.

N. H., Hanover—Beta Theta Pi Fraternity, Dartmouth College, bids about Apr. 1, 3 story, basement, brick, stone fraternity house, plain found. $150,000. Wells & Hudson, Main St., archts. Noted Mar. 26.

N. J., Hackensack—Bd. Educ., 355 State St., bids about Feb. 25, 2 story, basement, brick, rein.-con., steel, Hobart St. $180,000. A. Dore, 15 Main St., archt. Noted Nov. 19.

Pa., Pittsburgh—Bd. Educ., H. W. Cramblet, secy., Administration Bldg., bids about Mar. 1, Alice M. Cormalt School, brick, steel, Fairhaven Rd. $200,000. Marks & Kann, Home Trust Bldg., archts. C. L. Wooldridge, Inc., Fulton Bldg., consult. engrs. Noted Jan. 28.

Pa., Wilkes-Barre—G. W. Brooks, archt., 216 Smith St., Perth Amboy, N. J., bids about Apr. 15, Catholic Institution, 2 story, brick, steel, plain found. $150,000. Noted Feb. 4.

CONTRACTS AWARDED

Calif., Los Angeles—Regents of University of California, 3551 University Ave., general contract 3 story, basement, 65 x 130 ft., rein.-con., brick, terra cotta, concrete, hollow tile physics building, to Clinton Constr. Co., 1103 Spring Arcade Bldg., $122,400; electrical work, to Moore Electric Co., 321 West 3rd St., $10,564; refrigeration and air ventilation, to Carrier Eng. Corp. of California, 748 East Washington St., $28,908; plumbing, to Pacific Pipe & Supply Co., 1002 Santa Fe Ave., $26,488. Grand total $188,360. Noted Feb. 4.

Conn., Wethersfield—Town, 4 room addition to Griswoldville School, 2 room addition to Charles Wright School, 6 room addition to high school, to Allyn Wadhams Co., 15 Lewis St., Hartford. Est. $150,000. Noted Jan. 28.

Ind., Angola—School Comrs., general contract brick, high and grade school, to W. A. Sheets Constr. Co., 315 Cal-Wayne Bldg., Ft. Wayne, $110,618; plumbing and heating, to Schwegemann-Witte Co., 127 East Jefferson St., Ft. 2 story, basement, 108 x 232 ft., rein.-con., Sawyne, Elkhart, $2,940. Grand total $148,058. Wayne, $34,500; electric wiring, to K. R. Noted Dec. 17.

Mass., Melrose—City, R. A. Perkins, mayor, Mayor's Office, City Hall, general contract 3 story, basement, 180 x 215 ft., brick, steel, stone high school, plain found., Lynn Fells Parkway, to C. H. Cunningham & Son, 23 Central Ave., Lynn. Est. exceeds $150,000. Former contract rescinded. Noted Feb. 4, under "Contracts Awarded."

N. Y., Jackson Heights—Church of Blessed Sacrament, T. E. Malloy, 367 Clermont Ave., Brooklyn, general contract 70 x 190 ft., school, to O'Sullivan-Harney Co., 110 East 42nd St., New York. Est. $250,000. Contractor soon takes bids on separate contracts. Noted Dec. 10.

Pa., Phila.—Girard College, Gerard Ave., 2 story, basement, 70 x 112 ft., 60 x 106 ft., rein.-con., steel, limestone library, plain found., to Turner Constr. Co., Architects Bldg. Est. $400,000. Noted Feb. 18.

THEATRES

PROPOSED WORK

Calif., Woodland—National Theatre Syndicate, 25 Taylor St., San Francisco, plans by Bliss & Fairweather, Balboa Bldg., San Francisco, Class A, medium type theatre, Main St. $150,000.

Mass., Boston—North Station Theatre Co., c/o Boston & Maine Ry. Co., North Station, sketches by Funk & Wilcox, 26 Pemberton St., theatre (East End Concourse), North Station, Causeway St. $150,000.

R. I., Central Falls—Monast Realty Co., L. Monast, 188 Main St., sketches by C. W. Swanson, 21 High St., Pawtucket, brick, concrete, steel, 754-758 Broad St. $150,000-$175,000.

CONTRACTS AWARDED

Md., Baltimore—Owner, c/o F. Price, 3202 Garrison Blvd., plans by E. H. C. Browne, Fidelity Bldg., 1 story, basement, brick theatre, Liberty Heights, near Gwynn Oak Ave. $175,000. Noted Jan. 21.

OFFICES

BIDS ASKED

Ill., Quincy—Central Illinois Pub. Serv. Co., E. F. Kelly, genl. mgr., 130 South 65th St., Springfield, 4 story, basement, 75 x 100 ft. office building. To exceed $150,000. Private plans.

Ill., Streator—Streator Clay Mfg. Co., R. H. Green, pres., sketches 4 story, 110 x 200 ft. office building. **$150,000-$250,000. Architect** not appointed.

Neb., Omaha—Woodmen of the World, c/o M. E. La Rocca, pres., 424 North 38th St., rein.-con., brick, steel, stone office on 95 x 195 x 286 ft. site, 33rd and Farnam Sts.

N. J., Hackensack — Hackensack Water Co., Park Ave., Weehawken, sketches by C. V. R. Bogert, 210 Main St., 3 story, basement, brick, steel office, Main St. $150,000. Noted Jan. 14.

N. J., Union City — W. P. Keane, 317 Monastery Pl., rejected bids 2 story, basement, 75 x 100 ft., brick, steel office, store, Bergenline Ave. and 36th St. $150,000. **Maturity indefinite.** P. A. Vivarrtas, 110 48th St., archt. Noted Jan. 14.

Va., Norfolk—Mar. 8, by Professional Arts Building Corp., 13 story, 2 story wing, base of structure finished with terra cotta, polychrome design, upper twelve stories, brick, Starke St. $500,000. **Maturity in 1933.** A. B. Williams, Newport News, archt.

STORES

PROPOSED WORK

Mass., Boston—E. T. Slattery Co., c/o F. A. and F. M. Kimball, archts., 45 Bromfield St., altering 6 story, basement, brick store, 157 Tremont St. $150,000.

N. J., Cranford—J. Eastwood, 24 East North Ave., rejected bids 2 story, basement, 100 x 105 ft., steel, brick store, office, plain found., East North Ave. $150,000. Private plans. May go ahead with smaller project at later date. Negotiating for finances. Noted Jan. 14.

N. J., Montclair—Owner, c/o E. P. Bonnet, archt., 363 Bloomfield Ave., sketches altering and constructing 3 story, basement, brick, steel store, office addition. $150,000.

BIDS ASKED

Ill., Rockford—See "Contracts Awarded."

N. J., Newark—See "Contracts Awarded."

Ill., Rockford—W. T. Grant Department Stores, 203 West State St., general contract 2 story, basement, 80 x 120 ft., steel, brick store addition, plain found., to W. H. Cook & Son, Avon St., $100,000; iron work, to Mississippi Valley Steel Co., Melrose Park, terra cotta, to Northwestern Terra Cotta Co., 2525 Clyb Ave., Chicago, general contractor in market for millwork, tile, terrazzo. Bids about Mar. 5 on heating. Noted Feb. 11.

N. J., Newark—J. Ruderman, 777 High St., 2 story, basement, brick, steel, store, apartment, Lons Ave. and Parkview Terrace, separate contracts. $150,000. Siegler & Greenberg, 164 Market St., archts. Noted Feb. 11.

T. H., Honolulu—S. H. Kress Co., Western Pacific Bldg., Los Angeles, Calif., 2 story, brick, steel department store, to R. E. Woolley, Castle and Cook Bldg., $150,000.

PUBLIC

PROPOSED WORK

Ind., Indianapolis—DETENTION HOME—Bd. Comrs. Marion Co., D. W. Vorhies, pres., Court House, plans by Kopf & Deery, Pythian Bldg., 3 story, basement, brick, steel, Ogden and Alabama Sts. $150,000.

Mass., Wareham—TOWN HALL—Town, Bd. Selectmen, tentative plans being prepared by Special Building Com., J. F. Kiernan, one of members, town hall. $125,000-$150,000. Noted Feb. 5, 1931.

Mass., Westfield—POLICE HEADQUARTERS—City police headquarters, Central Station. $150,000. Architect not appointed.

Mo., St. Louis—AUDITORIUM—V. J. Miller, mayor, signed ordinance appropriating $3,700,000 (1st unit) proposed municipal auditorium, Market St. and Clark Ave., from 14th to 15th Sts. Bd. P. Serv. soon takes bids by sections. Noted Jan. 21.

Mont., Great Falls—HOME—Cascade Co., c/o S. E. Wick, aud., 2 story, basement, 260 x 344 ft. home, at Poor Farm. $180,000.

Nev., Las Vegas—COURT HOUSE—Clark Co., c/o County Clerk, sketches remodeling, extending present courthouse. A number of architects have submitted competitive sketches but no architect has yet been appointed. $150,000.

O., Cleveland—FIRE DEPARTMENT—City, J. E. Granger, ch. Fire Dpt., City Hall, 10 brick, steel, concrete buildings. $2,000,000. H. Kregelius, City Hall, archt.

O., Hamilton—PUBLIC UTILITIES—City, 2 story, basement, brick, stone public utilities building, to house all city offices. $250,000. R. P. Price, city mgr. Architect not appointed.

BIDS ASKED

O., Cleveland—POST OFFICE—Feb. 29, by Cleveland Union Terminals Co., C. W. Stage, vice pres.-secy. Terminal Tower, substructure for new post office, caisson and piling work, West 3rd and West 6th Sts., Huron Rd. and Prospect Ave. $300,000. H. D. Jouett, Terminal Tower, ch. engr. Noted Dec. 24.

Ind., Indianapolis—LIBRARY and HISTORICAL—Mar. 22, by State Library Building Comn. at office L. J. Bailey, secy., State Capitol, separate bids 2 story, basement, brick, steel, limestone, Senate Ave. and Ohio St. $1,000,000. Pierre & Wright, 909 Architects & Builders Bldg., archts. Bevington & Williams, 1139 Knights of Pythias Bldg., engrs. Noted Oct. 22.

Tex., Longview—COURT HOUSE, etc.—Gregg Co., c/o W. R. Hughes, judge, taking bids 5 story, 93 x 110 ft., brick, terra cotta, steel court house and jail. $200,000. Bonds approved. Voelker & Dixon, Perkins Snyder Bldg., Wichita Falls, archts. Noted Dec. 17.

CONTRACTS AWARDED

Mich., Caro—COURT HOUSE—Tuscola Co., general contract brick, steel, stone, rein.-con., to C. M. Kelley, Flint, $116,000; wiring, to Hall Electric Co., Caro, $2,545; heating, to Reinhardt Bros., Flint, $20,692. Grand total $139,237. Noted Dec. 3.

UNCLASSIFIED

PROPOSED WORK

Mass., Boston—MERCANTILE—New England Trust Co., 135 Devonshire St., rebuilding mercantile building, Beach and South Sts. To exceed $150,000. Architect not appointed.

Mass., Brookline—EXCHANGE—New England Telephone & Telegraph Co., 50 Oliver St., Boston, new plans completed by R. C. Sturgis, 120 Boylston St., Boston, altering and constructing 3 story, 40 x 180 ft., brick, limestone addition to Aspinwall Exchange. $150,000. French & Hubbard, 210 South St., Boston, engrs. Noted Mar. 12, 1931.

Mass., North Adams—HOME—North Adams Lodge of Elks, C. W. Cole, exalted ruler, raising $150,000 funds Elks home. Architect not appointed.

N. J., Menlo Park—MEMORIAL—Edison Memorial Com., J. F. Deegan, chn., Menlo Park, sketches prepared by H. A. Kelly, 921 Bergen Ave., Jersey City, Edison Memorial, 2 story, marble, limestone, steel. $1,000,000. **Maturity indefinite.** J. B. Peterkin, 285 Madison Ave., New York, assoc. archt. Noted Feb. 18.

N. J., Passaic—HOME—Polish Peoples Home, 1 Monroe St., sketches by J. T. Camlet, 26 Piaget Ave., Clifton, altering and constructing 2 story, basement home addition. $150,000. Noted Feb. 11.

R. I., Smithfield—ORPHANAGE—St. Vincent de Paul Society, W. A. Hickey, pastor, Fenner St., Providence, 3 story, basement, brick, Greenville Sect. $150,000 or more. **Maturity indefinite.** A. J. Murphy, 25 Fenner St., Providence, archt.

BIDS ASKED

Mass., Chelsea—HOME—Bd. Trustees, W. J. Keville, pres. Soldier's Home, taking bids 3 and 1 story, basement, brick, stone, steel, nurses' home and service building at Soldiers' Home, plain founds. $300,000. Former bids rejected. Coolidge, Shepley, Bulfinch & Abbott, Ames Bldg., Boston, archts. Noted Jan. 28.

Mass., West Roxbury (sta. Boston)—HOME—Altenheim, c/o Ladies Aid Society, Mrs. S. Hank, 2222 Centre St., taking bids 3 story, basement, irregular sized, brick, tile, stucco, plain found., Altenheim (German Home for Aged), Centre St. $150,000. Funk & Wilcox, 26 Pemberton Sq., Boston, archts. Noted Jan. 28.

CONTRACTS AWARDED

Calif., Pasadena—EXCHANGE—Southern California Telephone Co., 740 South Olive St., Los Angeles, 3 story exchange (except structural steel, steel frame structure, poured concrete walls, hollow tile partition, roofing, steam heating, etc.), 4th and Lorena Sts., to R. Westcott Co., 536 South Bway., Pasadena. Est. $150,000.

Mass., Bridgewater—EXCHANGE—New England Telephone & Telegraph Co., 245 State St., Boston, 2 story, basement, brick, stone, steel, plain found., to T. F. Crowell & Sons, 19 South St., Brockton. Est. $150,000. Noted Jan. 7.

Industrial Buildings

FACTORIES AND MILLS

PROPOSED WORK

Ariz., Coolidge — PLANT — Roswell Ginning Co., c/o Y. C. White, Roswell, N. M., building and machinery for pima gin plant. $42,000.

Calif., Armona—PACKING PLANT—Whitney Packing Corp., rebuilding plant, destroyed by fire. $40,000 or more.

Calif., Colma — PACKING PLANT — Colma Vegetable Assn., 511 Davis St., San Francisco, galvanized iron and wood packing plant. $40,000. Private plans.

Calif., San Francisco — DISTRIBUTING PLANT—Dairy Delivery Co., 2550 19th St., plans by W. H. Toepke, Call Bldg., rein.-con., Potrero Ave. To exceed $150,000.

Conn., Hartford—PIE PLANT—Frisbie Pie Co., 363 Kossuth St., Bridgeport, brick, concrete, steel addition, Maple St. $40,000. Private plans.

Ill., Streator — SEWER PIPE FACTORY — Streator Clay Mfg. Co. sketches rebuilding 4 story, 100 x 200 ft., brick, plain found., destroyed by fire. $250,000. **Maturity in 1933.** Engineer not appointed.

Ia., Marion—GAS PLANT—Clark & Jacoby, consult. engrs., Kansas City, Mo., making surveys municipal gas plant, for City.

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Factories and Mills (Continued)

Mass., Malden—FACTORY—Malden Products Co., Inc., c/o A. C. Mace Co., Inc., engrs., 93 Heath St., Roxbury, remodeling factory, Edgeworth Sect. $50,000.

Mass., New Bedford—BAKERY—Guisti Baking Co., 1395 Purchase St., altering and constructing bakery addition. $40,000-$50,000. Architect not appointed.

Mass., Northampton — ARTIFICIAL ICE PLANT — Norwood Ice Co., A. A. Grant, in charge, Merrick Lane, plans by R. E. Palmer, 56 Suffolk St., Holyoke, 2 story, brick, timber addition, Easthampton Rd. $40,000.

Mo., St. Louis—DAIRY PLANT—St. Louis Dairy Co., 2000 Pine St., sketches by G. Wolf, 2 South Central St., Clayton, 1 story, 60 x 100 ft., brick, concrete addition, 4161 Gravois St.

Mont., Hamilton—FRUIT PACKING PLANT—Bitter Root Packing Corp., c/o F. T. Parker, plans by R. C. Hugenin, 1023 West Porphry St., Butte, 3 story, basement, 60 x 120 ft., brick, rein.-con. fruit packing and refrigerating plant. $200,000.

N. H., Derry—FACTORY—Derry Assn., F. M. Young, Derry, plans by G. G. Adams, Bay State Bldg., Lawrence, Mass., brick, timber addition. $40,000.

N. J., Franklin—ICE PLANT—A. Littell, 1 story, basement, brick, steel artificial ice plant. $40,000. **Maturity indefinite.** Architect not appointed.

N. J., Jersey City—FACTORY—Owner, c/o B. Singer, archt., 921 Bergen Ave. sketches 2 story, basement, brick steel factory. $40,000.

N. J., New Brunswick—CEMENT PLANT—Edison Cement Co., 261 5th Ave., New York, remodeling plant of Building Materials Corp. and constructing cement manufacturing mill, Raritan Twp. $500,000.

N. J., Passaic—FACTORY—S. Slaff, plans by Preiskal & Skvarla, 631 Main Ave., rebuilding 2 story, basement, 100 x 100 ft. with two 25 x 100 ft. wings brick, steel, Highland Ave. and Allen St. Work may be done by separate contracts. $40,000. Noted Feb. 25.

Okla., Oklahoma City—ICE CREAM PLANT—Quix Kold Corp. sketches dry ice cream plant. $40,000. H. A. Wright, Norman, mgr.

Pa., Ambridge—PLANT—H. H. Robertson Co., Grant Bldg., Pittsburgh, sketches 150 x 600 ft. steel floor plant, 14th St.

S. C., Chester—MANUFACTURING—Eureka Cotton Mills mill units on new site beyond city limits, $40,000. J. E. Sirrine & Co., Greenville, engrs. and archts.

Tex., Houston — DAIRY — Sanitary Farms Dairies, Inc., c/o A. E. Riedel, secy.-treas., 2728 Washington Ave., plans by J. Finger, 711 Natl. Stand. Bldg., sanitary dairy building, etc. W. P. Moore, Kress Bldg., engr.

Tex., Mexia — CREAMERY — Stock Co., C. Daniels, supt., Waurika, Okla., and Mexia, Tex., brick, concrete creamery and ice cream plant. Private plans. Will purchase and install modern machinery and equipment.

Utah, Sigurd—GYPSUM PLANT — Jumbo Plaster & Cement Co., rebuilding plant, destroyed by fire. $250,000.

Wis., Rice Lake — FACTORY — Rice Lake Cheese Box & Mfg. Co., c/o F. Ruttner, Rice Lake, rebuilding rein.-con., brick, recently destroyed by fire. $40,000.

B. C., New Westminster—PLANT—Galbraith Ltd., New Westminster, re-erecting sash and door plant. $150,000.

Ont., Kincardine — ICE MANUFACTURING PLANT—Kincardine Pure Ice Co., William and Frank Morgan, owners, 1 story, 40 x 100 ft., concrete plant, electrically operated equipment. Private plans.

Sask., Veregin—FACTORY, etc.—Christian Community, P. Veregin, leader, jam factory, power plant and flour mill: Total est. $120,000.

BIDS ASKED

Calif., Stockton — REFRIGERATION and KITCHEN—Mar. 1, by State Dpt. P. Wks., Sacramento, rein.-con. refrigeration plant and kitchen addition, on State Hospital Grounds, for State. $118,000.

Mass., Lawrence—MANUFACTURING—Essem Packing Co., Inc., 101 Beacon St., taking bids altering and constructing 2 story, basement addition, Beacon St. $40,000. Worcester Tram Rail Co., Inc., 10 T Wharf, Boston, engrs.

Mass., Leominster—ICE PLANT—Harris Ice Co., Inc., Day St., taking bids 2 story, brick, plain found., Main St., North Leominster. $50,000. Private plans.

N. J., Newark—CHEMICAL MANUFACTURING PLANT—H. C. Hammel, Inc., engrs. and archts., 130 Branford Pl., taking bids general contract 7 story, basement, 55 x 80 ft., brick, rein.-con., plain found., Shipman St., for Hoyt Bros., Inc., 100 Shipman St. $150,000.

N. J., Salem—PLANT—L. H. Goettleman, archt., 402 Chestnut St., Brooklawn, taking bids general contract 2 story, basement, manufacturing plant; 1 story, 40 x 100 ft. warehouse; 1½ story, 50 x 115 ft. printing shop; 1 story, 25 x 142 ft. inspection shed; 1½ story, 130 x 150 ft. and 1 story, 50 x 35 ft. oven rooms, for Mannington Mills, Inc. $40,000 or more.

N. H., Concord—Aranosian Oil Co., West Concord, taking bids 1 and 2 story, brick, concrete garage, storehouse. $40,000. N. Simons, 33 North Main St., archt.

N. Y., Elm Park—DAIRY PLANT—J. Weissglass, 2014 Forrest Ave., taking bids 1 story, basement, brick, steel dairy plant, incl. pasteurizing plant, creamery, bottling plant, store and garage, Forrest Ave. $40,000. M. G. Uslan, 57 Bay St., St. George, archt. Noted Feb. 4.

CONTRACTS AWARDED

Calif., Chico—CANNERY—Western Canning Co. Ltd., concrete, steel, to H. Schuster Co., 354 Hobart St., Oakland, $75,000.

Calif., Los Angeles—FACTORY—Wood Hydraulic Hoist & Body Co., 1210 Mateo St., 1 story, 200 x 230 ft., brick, to M. P. Wilkinson, Hollywood Security Bldg., $45,000.

Ind., South Bend—ICE CREAM FACTORY—Furnas Ice Cream Co., general contract 2 story, basement, 90 x 145 ft., rein.-con., brick, steel, stone, plain found., incl. truck storage, wash, hardening, filling, manufacturing and shipping rooms on 1st floor, to Equity Constr. Co., 608 South Dearborn St., Chicago, Ill. Est. $150,000.

Md., Baltimore — GASOLINE TREATING PLANT—Continental Oil Co., Fairfield, Stratford, treating plant, 4,000 bbl. capacity, to Alco Products Co., 220 East 42nd St., New York.

Mass., Fall River—INDUSTRIAL—Cherry & Webb Co., 149 South Main St., altering and reconstructing 2 story, brick, South Main St., to Carey-Quarry Constr. Co., 56 North Main St. Est. $50,000.

Mass., Lynn—ARTIFICIAL ICE PLANT—H. C. Batchelder, 170 Lynn St., Peabody, 1 story, 50 x 192 ft. brick, Allerton St., to E. S. Blanchard, 940 Broad St.; equipment, to York Ice Machinery Co., 200 Causeway St., Boston. Noted Feb. 4 under "Contracts Awarded."

Neb., Omaha—FLOUR MILL—Nebraska Consolidated Mills Co., 1521 North 16th St., general contract 5 story, 2 basement, concrete, rein.-con., brick, 1521 North 16th St., to John Lof & Sons, 4006 Lake St., $40,000; machinery and equipment, to Allis Chalmers Mfg. Co., West Allis, Milwaukee, Wis., $38,000 or $39,000. Noted Feb. 11.

Ont., Dunnville — FACTORY — Dominion Fabrics, Forest St., 200 x 200 ft., brick, tile addition, to Sullivan & Fried, 81 Victoria St., Toronto, $100,000.

GARAGES

PROPOSED WORK

Mass., Springfield—Sanford Tire Corp., J. S. Coughlan, 34 Sanford St., bids early in March, brick super tire service and auto station, Gardner and Main Sts. $40,000. Private plans.

Nev., Las Vegas—J. F. Hesse & Associates, c/o Warner & Nordstrom, archts., Las Vegas, sketches 120 x 140 ft. garage. $40,000.

N. J., Hillside—P. H. Bornstein & Son, 1524 Maple Ave., rejected bids 1 and 2 story, basement, brick, steel garage and storage building, Maple Ave. $150,000. J. Centanni, 142 Market St., Newark, archt. Owner may award contract for smaller project. Noted Jan. 14.

N. J., Jersey City—Lafayette-Greenville Bus Owners Assn., and Greenville Bus Co., 77 Seaview Ave., denied application for building permit due to zoning ordinance for construction 1 story, basement, brick, steel garage and bus terminal, Gates Ave. and Merritt St. $150,000. May select new site. **Maturity indefinite.** H. Adelman, 437 Bway., Bayonne, archt. Noted Dec. 24.

N. Y., New York—H. Hillerbrand, lessee Fteley and Westchester Aves., 25 x 100 ft. auto repair and service garage, Fteley and Westchester Aves.

BIDS ASKED

R. I., Auburn—Service Battery Shop, taking bids 1 and 2 story, brick, concrete, steel service garage and showroom, plain found. $40,000. F. Chiaverini, 32 Bway., Providence, archt.

CONTRACTS AWARDED

Me., Lewiston—Wade & Dunton Carriage Co., 1 story, brick, concrete, steel auto garage, sales, service and repairs, plain found., 26 Park St., to J. A. Greenleaf & Sons, 20 Washington St., Auburn. Est. $45,000.

Mo., Kansas City—See "Residential."

POWER PLANTS

PROPOSED WORK

Ill., Springfield—City power plant improvements. Burns & McDonnell Eng. Co., 401 Interstate Bldg., Kansas City, Mo., engrs.

Mo., Kansas City—Kansas City Power & Light Co., 14th St. and Grand Ave., plans by H. G. Freshman, c/o owner, 1 story, rein.-con., brick, terra cotta substation, 42nd St. and Myrtle Ave. $50,000.

CONTRACTS AWARDED

Mass., Worcester—Reed & Prince Mfg. Co., Duncan Ave., brick, diesel power plant, to E. F. Sill, engr., East Main St., Westboro, by separate contracts. Noted Feb. 4.

Mich., River Rouge—Ford Motor Co., Dearborn, 2 brick, steel, concrete substations, plain found., 1 for steel mill and other for glass plant, to Butts Constr. Co., 6500 Epworth Blvd., Detroit. Est. $50,000. Noted Jan. 14.

N. Y., Yonkers—A. Smith & Son, Elm and Palisade Aves., 1 story, 44 x 69 ft. turbine building, power plant addition, to Barney Ahlers Constr. Co., 110 West 40th St., New York. Est. $40,000.

SHOPS AND FOUNDRIES

PROPOSED WORK

Mass., Pittsfield—SHOP—Pittsfield Auto Body Wks., 14 Gordon St., 2 story repair shop, Gordon St. $40,000. Architect not appointed.

N. Y., Rocky Point—SHOP and GARAGE—Owner, c/o E. P. Bonnet, archt., 363 Bloomfield Ave., Montclair, N. J., sketches 2 story basement, brick, steel auto repair shop and garage. $40,000.

BIDS ASKED

Wis., Manitowoc—SHOP—Mar. 2, by Comrs. Manitowoc Co., E. Berkedal, comr., general contract 2 story, 72 x 300 ft., rein.-con., brick machine shop. $40,000. Smith & Brandt, Appleton, archts.

WAREHOUSES

PROPOSED WORK

Mass., Springfield—Colonial Beacon Oil Co., 30 Beacham St., Everett, 1 story, 30 x 130 ft. and 15 x 34 ft., brick terminal, incl. retail filling station, bulk terminal office, loading rack, tanks, 10 car garage, metal pump house, Page Blvd. $40,000. Private plans.

N. Y., Brooklyn—C. Hobacker Warehouse Co., Glenmore Ave. and Berriman St., plans by W. C. Winters, 2772 Fulton St., altering and constructing 1 story storage addition.

BIDS ASKED

N. J., Irvington—N. J. Convery, archt., 32 Walnut St., Newark, bids about Apr. 1, 2 story, basement, 50 x 200 ft. warehouse, Lyons Ave., for T. J. Lee, c/o architect. $150,000. Noted Dec. 3.

CONTRACTS AWARDED

Mass., Boston—Fosters Wharf Co., 15 Fosters Wharf, rebuilding 5 story, brick, steel, storage, 384 Atlantic Ave., to J. W. Bishop Co., 100 Erie St., Cambridge. Est. $40,000 or more.

PROJECTS POSTPONED

Conn., Hartford—City, dike between Connecticut River and Commercial St., with grade changes in intersecting streets, railroad underpasses and incidental work. $400,000. Project postponed until 1933. R. N. Clark, Hartford, city engr. Noted Feb. 11.

Kansas—State Hy. Comn., Court House, McPherson, postponed indefinitely grading, drainage structures, culverts 5.918 mi. U. S. Hy. 77, Federal Aid Project 240-D, Marion Co.—concrete surfacing 1.476 mi. Kansas Project 4, Federal Aid Project 446-A—1.619 mi. U. S. Hy. 81, Federal Aid Project 296-D, both McPherson Co.—2.417 mi. U. S. Hy. 81, Federal Aid Project 296-B, Saline Co. W. V. Buck, Topeka, hy. engr. Noted Feb. 18.

Mass., New Bedford—G. A. Emin, 1098 Purchase St., postponed indefinitely 1 story, 80 x 100 ft., brick, concrete, steel garage addition, concrete found. $40,000. F. A. Walker, 227 Union St., archt. Noted Feb. 25.

Montana—Northern Pacific Ry. Co., B. Blum, ch. engr., St. Paul, Minn., suspended plan to build 24 mi. branch in Bloomfield Dist., Dawson Co. Noted Jan. 1, 1931.

N. H., Hanover—Dartmouth College, physics building College Campus. $150,000 or more. J. F. Larson, 27 East Wheelock St., archt. Postponed until 1933. Noted Sept. 3.

N. J., Waldwick—Bd. Educ., defeated bond issue $200,000 for 3 story, basement, brick, steel school, Hooper Ave. Project defeated. Hacker & Hacker, 201 Main St., Fort Lee, archts. Noted Feb. 2.

N. J., Westfield—S. Nathan, 139 East Broad St., will not build 2 story, basement store, loft, garage, apartment, 135-9 East Broad St. $150,000. Project abandoned. Owner may go ahead with smaller project, negotiating for finances. F. P. Friedman, 9 Clinton St., Newark, archt. Noted Jan. 21.

N. Y., Brooklyn—F. W. Plate, 3620 Bedford Ave., 1 story, 75 x 100 ft. service garage, 20th Ave. and 57th St. Project delayed pending issuance building permit. **Maturity in fall.** H. M. Sushan, 367 Fulton St., archt. Noted Jan. 28.

N. Y., New York—F. H. D. Holding Corp., 309 West 23rd St., will not build theatre, store, 261 8th Ave. To exceed $800,000. Project abandoned. T. W. Lamb, 507 7th Ave., archt. Noted Nov. 26.

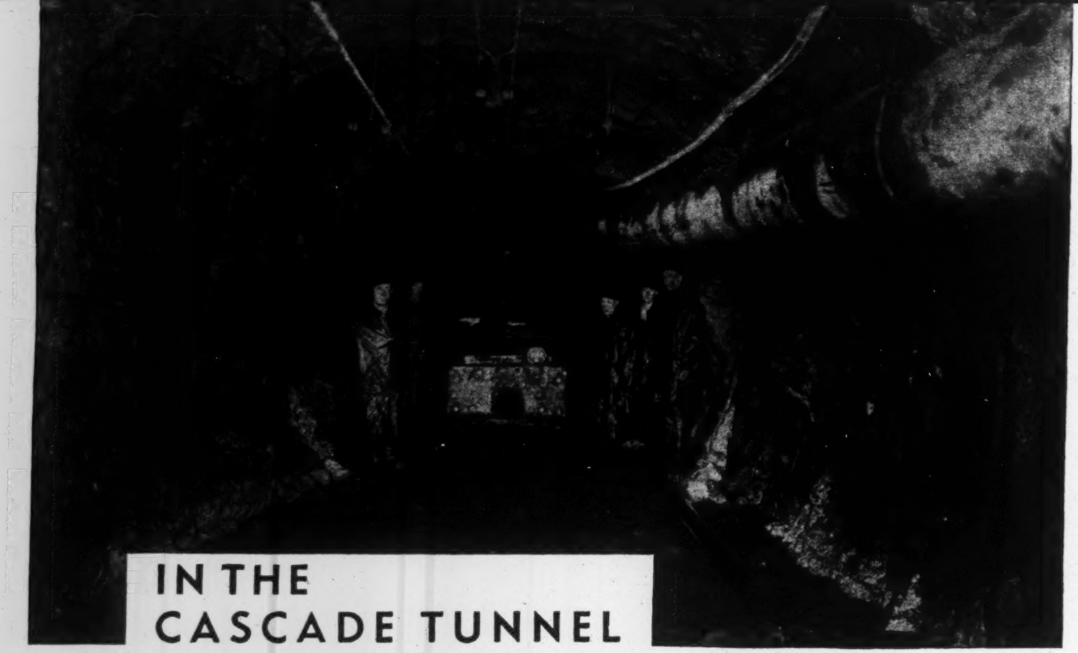
N. Y., New York—S. Levy, pres. Manhattan Boro. Municipal Bldg., indefinitely deferred awarding contracts on superstructure and mechanical equipment for municipal annex, Worth, Center and Lafayette Sts., due to lack of funds, for Dpt. Health, Hospitals & Sanitation. New bids may be taken when project ultimately proceeds. Excavation and foundation work in progress. Noted Dec. 24.

N. Y., New York—New York Fraternity Clubs postponed until next winter club. $2,000,000. Architect not appointed. Noted June 11.

See proposal advertising on page 54

Constr. News page 67

G-E LOCOMOTIVES HAVE HELPED BUILD AMERICA'S BIGGEST TUNNELS



IN THE CASCADE TUNNEL

G-E LOCOMOTIVES MASTERED ABNORMALLY DIFFICULT SERVICE CONDITIONS

Picture every difficult operating condition met by locomotives in tunnel work. Then add more water—plenty of it. Let it drip from the tunnel roof; let it submerge the tracks. These are the conditions that were met—and mastered—by G-E locomotives in the Cascade Tunnel.

Mr. W. E. Conroy was General Superintendent on the Cascade Tunnel. This is what he said concerning the performance of G-E locomotives:

"During the entire period of construction, covering about three years, the G-E mine-type locomotives, of which there were 42 in number, performed most satisfactorily under perhaps some of the worst conditions of water and service to be found in tunnel construction. The locomotives were equipped with the G-E vertical-type cable reel, which exceeded all expectations as to continuity of service and economy on reel cable."

This outstanding performance is characteristic of G-E locomotives; it has been proved again and again on practically every big tunnel job in America. Let this be your assurance that the first step in selecting locomotives should be to call on General Electric. Address your nearest G-E office or General Electric Company, Schenectady, N.Y.

TYPES USED

20-ton trolley
10-ton trolley
6-ton trolley
6-ton combination battery-trolley

One of the G-E locomotives equipped with vertical-axis cable reel

360-71

GENERAL ELECTRIC

SALES AND ENGINEERING SERVICE IN PRINCIPAL CITIES

CONSTRUCTION NEWS

SECTION OF ENGINEERING NEWS-RECORD—MARCH 3, 1932

WATERWORKS

PROPOSED WORK

Ark., Cabot—City plans waterworks and distribution system, incl. shallow well 1 mi. from city limits, mains between wells and city and distribution mains in city. Lund Eng. Co., Rector Bldg., Little Rock, engrs.

Calif., El Toro—Louis Robinson granted permit by State Div. of Water Resources to appropriate 80 acre ft. water from Trabuco Creek for domestic use and irrigation. Water is to be used on 180 acre tract above Trabuco Oaks. Cost for storage dam and reservoir $24,750.

Conn., Hartford — Metropolitan Water Dist., 3,460 ft. watermain extensions, in Hartford, West Hartford and Wethersfield. To exceed $1,000. C. Saville, 550 Main St., engr.

Conn., Wallingford—Boro replacing, main with larger main, and installing hydrants, Choate School. $1,000.

Ill., Freeport—See "Parks and Sports."

Kan., Hutchinson—United Water, Gas & Electric Co., 6 in. water-mains, fire hydrants, valves and boxes, Careyville addition, incl. Carey Blvd., G Ave., William, Liberty, D and Elm Sts. Private plans.

La., Gretna—City enlarging present system of elevated water tanks, $25,000; constructing 12,000 ft. additional mains, all sizes, $50,000. J. Gidiere, Gretna, engr.

La., Morgan City—M. C. Shannon, mayor, and City Council did not open bids received Feb. 19, for municipal waterworks and power plant, because various bids submitted were not stipulated upon taking bonds for the work instead of cash payments. City Council will make an effort to meet with the bidders and persuade them to come to some agreement by which the contract can be let before bonds are sold. Noted Feb. 4.

Mass., Medford—City, Dpt. P. Wks., laying, relaying watermains. $30,000 appropriated.

Mass., Pittsfield—P. J. Moore, mayor, extending matermains, West Pittsfield Sect. $9,000.

Minn., Hibbing—City improving water supply in North Hibbing, may sink deep well. H. F. Dear, city clk.

N. H., Concord—City, Bd. Water Comn., furnishing, laying 4,669 ft. water pipe in Penacook. $15,000.

N. M., Springer — City, c.i. water system within city limits with alternate flow line 13,500 ft. wood, steel or cast iron. $60,000. Election in April to vote on bonds. Weiland Eng. Co., Thatcher Bldg., Pueblo, Colo., engrs.

N. Y., Farnham—Plans water system. $45,000. State aid $8,000. G. Diehl, Ellicott Sq., Buffalo, engr.

N. Y., Pleasantville — Hearing before New York State Water & Control Comn. for establishment Hardscrubble Water Dist. Question jurisdiction of State Comn. raised, use village water as possible source considered. Indications project will go through within 4 to 6 months. Noted Feb. 11.

N. D., Cavalier—City, partial water system for fire protection. Bond election proposed. S. J. Sveinson, city aud.

Okla., Dustin—City, preliminary plans new impounding reservoir water supply. $25,000. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

Okla., Oklahoma City—City, final plans 3 ft. extension to diversion dam at city lake, incl. 387 cu.yd. excav. T. G. Banks, water supt.

Okla., Oklahoma City — City, making plans watermain extensions. $100,000. L. M. Bush, city engr.

Pa., Ambridge — Boro, A. W. Jones, mgr., soon takes bids 14 x 20 ft., brick booster water pump station. Pumps to be purchased by owner separately. Private plans.

Va., Amherst — Bd. Supervs. Amherst Co. plans 3 mi. distribution lines, 300,000 gal. storage tank, impounding dam, combined filtration and pumping plant. Election Mar. 23, $60,000 for same. E. E. Barnard, Law Bldg., Lynchburg, consult. engr.

Tex., Dallas—Park Bd., c/o E. B. Cauley, Dallasa, soon takes bids furnishing, laying water line in Hampton Rd. from city limits to Keist Park.

Tex., Keller—C. G. Johnson, franchise holder, plans extensive improvements to waterworks, incl. laying new mains.

BIDS ASKED

Conn., Waterford—Mar. 12, by W. A. MacKenzie, engr., 390 North Main St., Wallingford, furnishing, installing 16,590 ft. 6 and 8 in. c.i. water pipe, appurtenances, incl. pumps and motors, 100,000 gal. elevated steel water tank, concrete, brick pump house, for State. To exceed $15,000.

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N. J., Paterson—Mar. 15, by Passaic Valley Water Comn., 156 Ellison St., Stony Road Reservoir improvements, Contr. 17. Fuller & Everett, 25 West 43rd St., New York, engrs.; adv. E. N.-R. Mar. 3.

N. Y., Rochester—Mar. 9, by Dpt. Mental Hygiene, State Office Bldg., Albany, water lines at Rochester State Hospital. F. W. Parsons, comr.

N. Y., West Haverstraw—Mar. 29, at office Dpt. Health, State Office Bldg., Albany, water supply at New York State Reconstruction Home. T. Parran, Jr., comr.; adv. E. N.-R. Mar. 3.

N. C., Roanoke Rapids—Mar. 14, by Sanitary Dist. Bd., water and sewerage improvements, incl. automatic sewage pumping station, 20,000 ft. 30 in. outfall sewer, 500,000 gal. elevated steel tank. Spoon & Lewis, Greensboro, engrs.

Wis., Appleton—Mar. 15, by John Hantschel Country Club, waterworks, incl. 535 yd. rein.-con. pipe, rein.-con. reservoir, equipment. R. M. Connelly, 102 East College Ave., engr.

CONTRACTS AWARDED

Conn., Darien—Noroton Water Co., laying watermain in Post Rd., to new fire station, to T. E. Golden, Noroton Manor, Noroton. $1,500.

Ill., Elgin — City, constructing, installing 2 centrifugal one type control pumps, one in Shuler St. Well, other in Lavoie St., to Amer. Well Works, Aurora, $7,836. Noted Feb. 4.

La., Jena—City, A. D. Flowers, mayor, drilling wells, to I. B. White Drilling Co., Alexandria, La.

Md., Baltimore—Bd. Awards, furnishing, delivering, vitr. ring pipe to Bureau Water Supply, to Belair Rd. Supply Co., 5502 Belair Rd., $9,850.

Minn., Minneapolis—City, F. S. Gram, city purch. agt., to American Cast Iron Pipe Co., 712 Plymouth Bldg., 20,000 lin.ft. 6 in. c.i. pipe at $0.535 per ft., 4,000 ft. 7 in. $0.745, 4,000 ft. 12 in. $1.26, and 3,000 ft. 16 in. at $1.85, total $22,320; 40 hydrants, to Columbian Iron Wks., 2501 Chestnut St., Chattanooga, Tenn., at $61.70 each; 25 pairs insert sleeves and gates for Water Dpt., to A. P. Smith Mfg. Co., 545 North Arlington Ave., East Orange, N. J., at $55 per pair. Noted Feb. 4.

Mo., Kansas City—City, 1,534 ft. 42 in. steel welded pipe and specials, to Kansas City Structural Steel Co., 21st St. and Metropolitan Ave., $15,819.

Neb., Lincoln—City, one 6 and one 9 m.g.d. horizontal centrifugal pumps for Ashland Pumping Station, to Allis-Chalmers Mfg. Co., West Allis, Milwaukee, Wis., $6,399; 5 deep well turbine pumps, to Layne-Western Co., Interstate Bldg., Kansas City, Mo., $9,065; 1 switchboard and miscellaneous electrical equipment, to Interstate Constr. Co., Lincoln, $21,821; steam turbine-driven pumping unit and auxiliaries for A Street water and light plant, to DeLaval Steam Turbine Co., Dwight Bldg., Kansas City, Mo., $26,003; constructing Storm Sewer Project 12-A in 14th St., using 42 in. concrete pipe, to A. A. Dobson Co., 1st Natl. Bank Bldg., $19,400. Grand total $82,688.

S. C., Ware Shoals—Ware Shoals Mfg. Co., filtration plant for manufacturing plant, to A. K. Adams Co., 542 Plum St., Atlanta, Ga. Est. $45,000.

Que., Montreal—Executive Com., underground conduits on Park Ave., to G. M. Gest Ltd., Power Bldg., $145,000. Noted Feb. 18.

SEWERS

PROPOSED WORK

Calif., Los Angeles—Bd. P. Wks., City Hall, no bids were submitted to Bd. P. Wks., Feb. 17, because of withdrawal of call for bids constructing Anaheim St. Sewer between Schley and Wainwright, Anaheim St. and Badger Ave. Sewer Dist. Plans will be changed and new call issued in near future. J. J. Jessup, City Hall, engr. Noted Feb. 11.

Calif., San Diego—City Council considering plan for comprehensive system for disposal of city sewerage, providing for central treatment plant and to sell reclaimed water to provide revenue, incl. 60 mi. 10- to 75-in. pipe. $2,000,000. C. F. Frisbie, 408 South Spring St., Los Angeles, engr.

Ill., Freeport—See "Parks and Sports."

Minn., Duluth—Sanitary Dist. plans completed about Apr. 1, sewage treatment works. $735,000. Alvord, Burdick & Howson, 20 North Wacker Dr., Chicago, Ill., engrs. Noted July 23.

N. Y., Depew—Sewage disposal system. $150,000. State aid $25,000. Bond issue soon. G. Diehl, Ellicott Sq., Buffalo, engr. Noted July 3, 1930.

N. Y., Scarsdale—Village preliminary plans sewerage improvement Sewer Dist. 2. District established by Bd. Village Trustees. Hearing to be held on $234,000 for improvement. Total $1,250,000. A. Boniface, Town Hall, engr.

N. Y., Springville—Sewage disposal system. $140,000. State aid $25,000. Bond issue soon. G. Diehl, Ellicott Sq., Buffalo, engr.

N. Y., Utica—City bids probably in April, laying 7,000 ft. intercepting sewer, starting at Masonic Home Trunk Sewer in Broad St., along Broad St. and New York Central R.R. property to Grace Creek, $50,000; also 900 ft. 30 in. vitr. sewer in Roosevelt Dr. near Lowell Ave. to Merriline Ave. and along Merriline Ave. to Hazelhurst Ave., $6,000. J. B. Shaw, city engr., is seeking authority to build sewer by emergency relief labor instead of by contract making considerable saving in labor cost.

Tenn., Chattanooga—City, 9.33 mi. sub-mains, 9.79 mi. lateral sewers in Brainard Area, 15th Ward. $200,000 bonds voted for same. Z. Taylor, City Hall, comr. Streets & Sewers. Noted June 4.

Wisconsin — Fox River Valley of Wisconsin Municipalities Assn., sewerage system, Neenah and Kaukauna. $1,400,000. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, Ill., engrs. A. E. McMahon, city engr. of Menasha, ch. of Engineering Com. of owner.

Wis., Milwaukee—Sewerage Comn. soon takes bids feed and return sludge channels, control house, piping for sewage disposal plant extension, incl. gate valves, terra cotta drains, all work constructed on piles. J. F. Ferebee, ch. engr. Noted Nov. 5.

Wis., Milwaukee—Sewerage Comn. soon takes bids (10 ft. x 6 ft.) 54 in. and 4 x 4 ft. sluice gates; 8, 10 and 12 in. plug valves; floor boxes, floor stands and motor operators, also Venturi tube. J. L. Ferebee, Milwaukee, ch. engr.

BIDS ASKED

Calif., Capistrano Beach—Mar. 9, by Capistrano Beach Sanitary Dist., 22,000 ft. 6 in. and 22,300 ft. 8 in. c.i. and vitr. sanitary sewerage collection system in Victoria and La Playa Aves., Mission and other streets. $50,000. Burns-McDonnell-Smith Eng. Corp., 1031 South Broadway, Los Angeles, engrs.

Conn., Stonington—Mar. 10, by State, 2,200 ft. 8 and 10 in. vitr. tile sewer, sewage disposal, incl. filters, sludge beds, concrete tanks and appurtenances at Mystic Oral School. $60,000. J. F. Lynch, 578 Campbell Ave., West Haven, engr. Noted Jan. 14.

Ill., Chicago—Mar. 7, by Comrs. Cook Co., County Bldg., 475 lin.ft. D.S. vitr. 12 in. storm sewers, 3 manholes, seven 6 and 12 in. Y branches, hydrant and auxiliary valves, removed and reset, 460 lin.ft. c.i. pipe, Harlem Ave. Sewer Improvement, Sect. 039-2323, 3-15 D, in Harlem Ave. between 46th and 47th Sts., in Forest View. Cement to be furnished by county.

Pa., Meadville—City, bids probably this week, 2,500 ft. culvert sewer in Linden St. One bid based on all work being done by man power, alternate by machinery. Meadville labor and as much material as possible to be local. $25,000 bonds authorized and sold. R. Phillips, City Hall, engr.

See proposal advertising on page 87

Constr. News page 69

LEADITE

Trade Mark Registered U.S. Pat. Office

One of many Bridge Pipe Lines —with LEADITE Joints

The above, is but one of many Bridge Pipe Line installations which are jointed with LEADITE, in various sections of this country.

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CEMENT
for JOINTING WATER MAINS
MANUFACTURED BY
THE LEADITE COMPANY
PHILADELPHIA, PA.

No Caulking

Sewers (Continued)

Va., Richmond—Mar. 15, at office R. K. Compton, dir. P. Wks., 1111 East Broad St., Bacon Quarter Branch Relief Sewer; adv. E. N.-R. Mar. 3. Noted Feb. 25.

CONTRACTS AWARDED

Calif., San Diego—See "Streets and Roads."

Md., Baltimore—Bd. Awards, sanitary sewers, storm drains in Sewer Dist. P-9, Storm Water Contr. 172, inc.l 2 190 lin.ft. 9 ft. 6 in. x 8 ft. rein.-con. pipe drain, 1,320 lin.ft. 12- to 18-in. vitr. sewer, 15,300 cu.yd. excav., 14,200 sq.ft. vitr. clay liner plates, to N. Martell, 4400 Vesta Ave., **$45,548.**

New York — Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, drainage equipment for Line D from 8th to Roosevelt Aves. and from Line E from Nassau Ave. to Queens Plaza forming part of Independent System City-Owned Subways, Manhattan, Queens and Richmond Boros, to Erickson Equipment Co., 452 Lexington Ave., $108,400. Noted Feb. 2.

Wis., Milwaukee — Metropolitan Sewerage Comn., substructure 1 story, brick, sewage booster station, to Klug & Smith, 111 East Wisconsin Ave., $18,650; superstructure, to L. F. Schroeder Constr. Co., Fond du Lac, $12,950. Noted Jan. 28.

WASTE DISPOSAL

PROPOSED WORK

Pa., Homestead — Boro, H. Markley, secy., Municipal Bldg., brick, steel incinerator plant. W. W. Smith, 336 11th St., engr.

BRIDGES

PROPOSED WORK

Calif., Oakland—Alameda Co. surveys Park Street Bridge connecting Oakland and Alameda. $750,000. G. A. Posey, Oakland, co. surv. Noted Oct. 30.

Ohio—Dpt. Bridges, Hy. Dpt., Columbus, 400 ft. deck type bridge, concrete substructure, steel superstructure over Great Miami River, State Route 123, Franklin, Warren Co. $200,000, details to be arranged with chief engr. Eiffert of Miami Conservacy Comn., Dayton; 600 ft. deck bridge over Great Miami River, steel girders, concrete substructure, U. S. Route 127, Hamilton-Eaton Rd., at edge of Hamilton, Butler Co., $250,000, County, State and U. S. Proposition—1,600 ft. probably all concrete, high level bridge over Rocky River, State Route 43, west of Brook Park, Cuyahoga Co., $600,000-$800,000—500 ft. concrete substructure, steel superstructure, deck type bridge over Maumee River, U. S. Route 24, $250,000—deck type bridge over Portage River, near Port Clinton, Ottawa, $200,000. **Maturity in spring.**

BIDS ASKED

Ill., Chicago—Mar. 7, by Comrs. Cook Co., Chicago River Bridge on Carpenter Road North Branch, near Edgebrook Sta.; drainage structures, 7 rein.-con. culverts, 3 pipe culvert extensions, Hibbard and Willow Rds., Norhtfield—Pratt type steel bridge with roadway approaches Crawford Ave. Calumet Sag Channel Bridge, near Blue Island. G. A. Quinlan, 221 North LaSalle St., engr.

Kansas—Mar. 9, by State Hy. Comn., Dodge City **(K.P. means Kansas Project and F.A.P. Federal Aid Project),** three 8 ft. span extension to multiple box bridge, U. S. Hy. 154, F.A.P. 236-D Ford Co.—Bridge 1, eight 30 ft. span deck girder, Bridge 2, six 40 ft. span deck girder, both 24 ft. roadway, K.P. 21, F.A.P. 440-A Ness Co.—two 30 ft. span multiple box bridge, 30 ft. roadway, K.P. 21, F.A.P. 440-D Hodgeman Co. — six 40 ft. span deck girder bridge, 24 ft. roadway, K.P. 21, F.A.P. 440-F Ness Co. W. V. Buck, Topeka, hy. engr.

Missouri—Mar. 11, by State Hy. Bd., Jefferson City, bridges in Adair, Audrain, Bollinger, Barton, Boone, Carter, Cass, Dent, Franklin, Holt, Jefferson, Montgomery, New Madrid, Pemiscot, St. Louis, Ste. Genevieve, Schuyler, and Sullivan Counties. T. H. Cutler, state hy. engr.

Neb., Red Cloud—Mar. 8, by B. F. Perry, clk. Webster Co., wood, concrete, steel bridges to be built during 1932.

Wisconsin—Mar. 8, by State Hy. Comn. and Hy. Com. Burnett and Sawyer Counties, 1517 Tower Ave., Superior, Wood River Bridge, S. T. Hy. 70, S.A.P. 8413, Burnett Co.; Crooked Rapids Bridge, S. T. Hy. 70, S.A.P. 8419, Sawyer Co.

CONTRACTS AWARDED

Indiana — State Hy. Comn., Indianapolis, 2 bridges near Waveland, Contr. 464, and 2 bridges near Browns Valley, Contr. 465, both Rd. 47, Montgomery Co., to Indiana Road Paving Co., Rochester, $11,282 and $11,275 respectively, est. $17,205 and $17,811 respectively — 3 bridges near Wadesville, Contr. 469, Posey and Vanderburgh Counties and 2 bridges near Wadesville, Contr. 468, Posey Co., to A. G. Ryan & Sons, Christney, $14,644 and $9,674 respectively, est. $22,373 and $13,803 respectively. Grand total $47,875. Noted Feb. 11.

Kansas—State Hy. Comn., Hays, **(P. means Project and F.A.P. Federal Aid Project),** to Schlichter Bridge Co., Clay Center, four 8 x 8 x 30 ft. span multiple box bridge, P. 1-15, F.A.P. 286-C Ellis Co. $2,457; three 10 x 5 x 32 ft. span multiple box bridge, P. 1-14, F.A.P. 269-A Ellis Co. $1,871; three 7 x 4 x 30 ft. span mutliple box bridge, P. 8-15, F.A.P. 389-C $1,151; three 90 ft. steel trusses and two 40 ft. deck girders, P. 8-15, F.A.P. 389-C $31,062, both Russell Co.—to A. L. Cook, Ottawa, seven 80 ft. deck arches P. 1-15, F.A.P. 286-C Ellis Co. $63,338; three 40 ft. deck girders, P. 8-15, F.A.P. 389-C $8,968; five 30 ft. deck girders, P. 8-15, F.A.P. 389-C $8,597, both Russell Co.—to Maxwell Constr. Co., Columbus, twenty-two 30 ft. deck girders P. 83-11, F.A.P. 247-C Logan Co., $39,766—to Manhattan Constr. Co., Manhattan, six 35 ft. and one 60 ft. beam spans, P. 8-15, F.A.P. 343-D Norton Co. $22,403. Grand total $179,613.

Virginia—State Hy. Dpt., Richmond, 30 ft. rein.-con. bridge over Georges Creek, to Blount & Hayman, Brodnax, $3,549—three 25 ft. span rein.-con. bridge over Stinking River, to M. S. Hudgins, Roanoke, $4,049—two 30 ft. span rein.-con. bridge over Frying Pan Creek, to Perkins-Barnes Constr. Co., Inc., Blackstone, $3,414, all foregoing Pittsylvania Co.—clearing, grubbing, grading, drainage structures, concrete surfacing 0.289 mi. Falling Creek Rd., Chesterfield Co., incl. bridge over Falling Creek, to G. P. Clay, Richmond, $13,445. Grand total $24,457. Noted Jan. 21. Contracts awarded Feb. 6.

Virginia—See "Streets and Roads."

STREETS AND ROADS

BIDS ASKED

Ind., Laporte — Mar. 12, by Bd. Comrs. Laporte Co., improving Lewis Harness Rd. $58,373. R. W. Leets, Laporte, aud.

Kansas—Mar. 9, by State Hy. Comn., Dodge City, **(K.P. means Kansas Project and F.A.P. Federal Aid Project),** concrete surfacing 0.727 mi. U. S. Hy. 154, F.A.P. 236-B—4.718 mi. U. S. Hy. 154, F.A.P. 236-D, both 20 ft., Ford Co. — grading, drainage structures, culverts, 4.346 mi. K.P. 21, F.A.P. 440-A—1.079 mi. K.P. 21, F.A.P. 440-F, both Ness Co.—0.652 mi. K.P. 21, F.A.P. 440-D—0.651 mi. K.P. 21, F.A.P. 440-E, both Hodgeman Co. W. V. Buck, Topeka, hy. engr.

Kentucky—State Hy. Dpt., Frankfort, rejected bids Jan. 12, surfacing 4.2 mi. Covington-Erlanger Rd., U. S. Hy. 25, Federal Aid Project 141-BS and 2.5 mi. same road, CS, Kenton Co. B. Johnson, chn. Noted Dec. 24.

Kentucky—Mar. 23, by State Hy. Dpt., Frankfort, grading, drainage structures 21.1 mi. Carrollton-Gratz Rd., Carroll and Henry Counties—10.6 mi. Mt. Olivet-Kentontown-Claysville Rd., Robertson Co.—surfacing 4 mi. Covington-Morning View (DeCoursey) Rd., Kenton Co.—10 mi. Owenton-Frankfort Rd., from junction with U. S. Route 227 ½ mi. south of Owenton to Monterey—5.7 mi. same road from Monterey to Franklin Co. line, both Owen Co.—fill approach to bridge over Scrub Grass Creek near Myers Station on Cynthiana-Flemingsburg Rd., Nicholas Co.

Maryland—Mar. 8, by State Roads Comn., Baltimore, concrete paving 4.65 mi. Contr. AA-118-72, Anne Arundel Co.—graveling 1 mi. Contr. C-58-82, Calvert Co.—1.01 mi. Contr. Ch-88-82, Charles Co. L. H. Steuart, secy.; adv. E. N.-R. Mar. 3.

Michigan—Mar. 9, by H. G. Oakes, div. engr., Plymouth, grading, drainage structures 2.462 mi. FO63-27C-2, Oakland Co., for State Hy. Comn., Lansing.

Missouri—Mar. 11, by State Hy. Bd., Jefferson City, grading, graveling, concrete paving roads in Adair, Andrew, Audrain, Barry, Barton, Bollinger, Boone, Camden, Carter, Cass, Cole, Chariton, Dent, Dunklin, Frankliln, Greene, Holt, Jefferson, Lafayette, Macon, Montgomery, Miller, Mississippi, New Madrid, Phelps, Pemiscot, Pike, Pulaski, Putnam, St. Louis, Ste. Genevieve, Stoddard and Sullivan Counties. T. H. Cutler, state hy. engr.

New York—Mar. 15, by A. W. Brandt, comr. Hys., Albany, improving hy. in Queens Co.; reconstructing bridges in Erie and Greene Counties; adv. E. N.-R. Mar. 3.

N. Y., Attica—Mar. 22, by Dpt. Correction, State Office Bldg., Albany, concrete road at Attica State Hospital, W. B. Thayer, Jr., comr.

Oklahoma—Mar. 8, by State Hy. Dpt., Oklahoma City, grading 7.9 mi. U. S. Hy. 9 $30,000—and 7.31 mi. State Hy. 9 $30,000, both Harmon Co.—4.11 mi. U. S. Hy. 277 $25,000—5.31 mi. U. S. Hy. 9 $25,000, both Cotton Co.—11.95 mi. U. S. Hy. 283 $40,000—7 mi. U. S. Hy. 283 $25,000, both Ellis Co., all foregoing 32 ft. wide. C. L. Wilson, Oklahoma City, state hy. engr.

CONTRACTS AWARDED

La., New Orleans—New Orleans Levee Bd., gravel on dead reef shell surfacing 3.1 mi. road in Zones 4 and 9 of Lake Front Development, incl. 17,000 lin.ft. D pipe, 250 catch basins, 36,000 cu.yd. dead reef shell, 18,000 cu.yd. gravel, to A. N. Goldberg, Louisiana Bldg., $187,720.

Michigan—W. J. Kingscott, div. engr., 209 McNair Bldg., Kalamazoo, grading, drainage structures 5.485 mi. FO39-26C-1, and 2.5 mi. FO39-7C-1, both Kalamazoo Co., to John R. Edelman Co., Inc., Muskegon Heights, for State Hy. Comn., Lansing, $43,281 and $24,094 respectively. Noted Feb. 4.

Michigan—H. G. Oakes, div. engr., Plymouth, widening grade and lengthening draniage structures 8.395 mi. MO58-21C-1, Monroe Co., to W. H. Knapp Co., Monroe, for State Hy. Comn., Lansing, $44,536. Noted Feb. 4.

Minnesota—State Hy. Dpt., St. Paul, paving 19.3 mi. State Project 5-38, Sect. 3, F.A.P. 422-B, S.P. 5-38, Sect. 1 F.A.P. 422-C, and S.P. 5-38 Sect. 2, to J. S. McLoughlin & Sons, Mankato, $290,370—21.6 mi. S.P. 18-23 Sect. 1, Divs. B and C, F.A.P. 3, and Sect. 3, F.A.P. 9, to Winston Bros. Co., 1470 Northwestern Natl. Bank Bldg., Minneapolis, $337,367—grading 19.5 mi. S.P. 4-37, Sect. 1, and 8.6 mi. S.P. 4-37 Sect. 2, to Kremer & Hog, 49 South 9th St., Minneapolis, $119,139 and $48,958 respectively—12.5 mi. S.P. 5-39, Sect. 2, to Megarry Bros., Bain, $76,164—8.6 mi. S.P. 6-50, Sect. 2, to A. J. McKibbon, Lnacaster, $28,244—14.8 mi. S.P. 6-55 Sect. 1, to Strom Constr. Co., Moorhead, $107,199—4.2 mi. S.P. 7-27, Sect. 3, to Griffis Bros., 5528 Nicollet Ave., Minneapolis, $172,053—7.3 mi. S.P. 11-39, Sect. 1, to A. Guthrie & Co., Builders Exchange Bldg., St. Paul, $203,731. Grand total $1,383,225. Noted Jan. 28 and Feb. 4.

Nevada—State Hy. Comn., Carson City, grading, drainage structures, surfacing 10.58 mi. Arrowhead Trail between Lower Virgin River Bridge and Mesquite, Clark Co., to Gibbons & Reed, Continental Bank Bldg., Salt Lake City, Utah, $169,530. Noted Feb. 4.

New Mexico—W. R. Eccles, engr. State Hy. Dpt., Santa Fe, gradnig, crushed base course surfacing 5.861 mi. road in Santa Fe Co., to McClure & Denison, Tucumcari, $98,586.

Utah—State Hy. Comn., Salt Lake City, grading, graveling 9.5 mi. Saltair Hy., Salt Lake Co., to Dodge Bros., Fallon, Nev., $87,157 est. $98,389; bridges on same road, to Christensen & Gardner, Vermont Bldg., Salt Lake City, $41,716 est. $53,146. Noted Feb. 11.

Virginia—State Hy. Dpt., Richmond, clearing, grubbing, grading, drainage structures top soil surfacing 1.892 mi. Sandy Creek Rd., incl. bridge over Sandy Creek, Halifax Co., to Boston Constr. Co., Inc., South Boston, $20,311—0.526 mi. Columbia-Dixie Rd., Fluvanna Co., to Hall & Mitchell, Keswick, $5,092—grading, drainage structures, concrete surfacing 0.478 mi. Dunlap underpass and approaches, Chesterfield Co., to R. G. Lassiter & Co., Norfolk, $9,316—three 40 ft. span rein.-con. beam bridge over Bent Creek, Appamattox Co., to Alley Constr. Co., Bristol, $5,871. Grand total $40,590. Noted Feb. 4.

Virginia—See "Bridges."

Washington—S. J. Humes, dir. Hys., Olympia, improving 3.707 mi. road, Pierce Co., to Morrison Knudsen Co., 1307 Old National Bank Bldg., Spokane, $122,803; 6.581 mi. Stevens Co., to D. A. Sullivan & Co., Box 47, Spokane, $40,753. Noted Jan. 28.

Ont., Port Colborne—J. W. Pugsley, secy. Dpt. Railways & Canals, Ottawa, carrying West St. over forebay of Old Welland Canal Supply Wier, to Ontario Constr. Co. Ltd., Bank of Toronto Bldg., St. Catharines.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

Canada—Federal Govt. Dominion of Canada, main estimates for fiscal year ending Mar. 31, 1933, as follows:

Dpt. Railways and Canals, H. Debuc, Ottawa, Ont., ch. engr., improving Carillon-Grenville Canal $10,350; Lachine Canal $20,900; St. Aimes Lock $6,100; Rideau Canal $17,000; Trent Canal $133,400; Welland Canal $25,000; Welland Ship Canal $125,000.

Dpt. P. Wks., T. Fuller, ch. archt., Ottawa, Ont., Postal Terminal Building, Montreal, Que. $500,000; in Nova Scotia, dredging Barrington Passage $18,800; Brooklyn $42,000; Yarmouth Harbour $125,000—in Quebec, extending western breakwater, Mataul $36,000; wharf improvements, Montmagny $10,700; St. Charles de Caplan $21,000; reconstructing wharf Ste. Emelie $35,000; extending wharf St. Simeon $24,000; St. Jacques des Piles $17,000—in Ontario, dredging Blind River $20,000; harbor improvements, Leamington $75,000; Midland $40,000; Oshawa $12,500; Port Hope $21,400; Port Arthur and Fort William $21,000; Saulte Ste. Marie $20,000—in British Columbia, improvements from Hudson Hope to Canyon Coal Mines, Peace River $12,000; dredging Sooke $9,500. Total amount provided for dredging, maritime provinces, $235,500; Ontario and Quebec, $315,000; Manitoba, Saskatchewan and Alberta $46,800; British Columbia, $130,000. Total $727,300.

Alberta-Great Bear River Rapids, Portage Rd., $12,000.

BIDS ASKED

La., Abbeville—Mar. 12, by Bd. Comrs. Isle Maronne Drainage Dist., Vermillion Co., cleaning, redredging 1.25 mi. canal leading south from Intracoastal Canal, 5 ft. deep, 18 ft. wide.

New Jersey—Mar. 15, at office Bd. Commerce & Navigation, Trenton, redredging channel in Manasquan River, Brielle and Point Pleasant Beach Boros, Monmouth and Ocean Counties, also dredging channel in Manasquan River in Point Pleasant Boro and Wall Twp., Ocean Co. and Brielle Boro, Monmouth Co., Contr. 56. V. Gelineau, dir. and ch. engr.; adv. E. N.-R. Mar. 3.

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Excavation, Drainage, Irrigation, Levees, River and Harbor (Continued)

CONTRACTS AWARDED

New Jersey — Bd. Commerce & Navigation, State House, Trenton, dredging channel in Great Egg Harbor River, to Hill Dredging Co., 5601 Atlantic Ave., Atlantic City, at $0.1175. Est. $37,500. Noted Jan. 28.

Wash., Bellingham—State Hy. Dpt., Olympia, replacing Chuckinut Creek Bridge with earth fill, to J. Otteson Co., Lyon Bldg., Seattle, $28,569. Noted Feb. 11.

Bond Elections

Coming Bond Elections

Waterworks Plant Enlargement — Tuscaloosa, Ala., Mar. 14, $75,000. W. H. Nichol, city engr.

Waterworks — Signal Mountain (Chattanooga P. O.), Tenn., Mar. 9, $50,000. C. A. Blaylock, secy.

Filtration, Pumping Plant, Dam, Mains, etc.—Amherst, Va., Bd. Supervisors, Amherst County, E. E. Burnard, Law Bldg., Lynchburg, conslt. engr., Mar. 23, $60,000.

Storm Sewerage System, Repairing Viaducts, Fire Equipment, etc.—Joplin, Mo., Mar. 4, $100,000.

Paving — Flagstaff, Ariz., $150,000. J. B. Wright, city engr.

Road Improvements—Gregg County, Tex., Mar. 15, W. R. Hughes, Co. Judge, Longview, $1,500,000.

Junior High School—Palo Alto, Calif., $200,000.

Bonds Voted

Waterworks—Kittitas, Wash., $30,000.

Sewers—Chattanooga, Tenn., $200,000. Z. Taylor, Comr. Streets & Sewers, City Hall.

Road Improvement and Bridges—Dallam County, Tex., Dalhart Dist., County Engr. Dept., Dalhart, $360,000.

Road Improvement—Falls County, Tex., $45,000. V. H. Harris, Rosebud, engr.

Hydro Electric Plant Completion — Murray, Utah, Bledsecker & Bledsecker, engrs., $35,000.

Bonds Defeated

Sewage Disposal Plant — Bemidji, Minn., $25,000.

FEDERAL GOVERNMENT

PROPOSED WORK

Ark., Fayetteville—HOSPITAL—Vet. Bu., Arlington Bldg., Wash., D. C., 11 buildings for hospital group, incl. 3 or 4 story, 125 x 275 ft. main hospital, 2 story, 50 x 150 ft. administration building, 1 story, 75 x 150 ft. recreation building; 2 duplex buildings, medical officers' building, nurses' home; 3 story, 100 x 150 ft. boiler house, garage, storehouse, for U. S. Veterans' Hospital. $1,000,000. City to finance purchase of site.

Ark., Jonesboro—POST OFFICE—Treas. Dpt. at office Superv. Archt., Wash., D. C., soon takes concrete, brick, stone addition. $110,000. J. A. Wetmore, acting superv. archt., Wash., D. C. Noted May 7.

Fla., Pensacola—JETTY—U. S. Eng., Montgomery, Ala., preliminary plans and estimates replacing present stone jetty with rein.-con. deck and stone filling jetty, at Fort McRee, Pensacola Harbor. $150,000. R. A. Sharrer, Montgomery, Ala., dist. engr. H. P. Merrill, Fort Barrancas, engr.

Fla., St. Petersburg—HOSPITAL—Vet. Bu., Arlington Bldg., Wash., D. C., hospital addition. $80,000.

Ind., French Lick — POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., soon takes bids 1 story, basement, brick, steel, College and Walnut Sts.

Ind., Salem—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., soon takes bids 1 story, basement, brick, steel, East Walnut and North High Sts.

Ind., Vincennes—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., soon takes bids U. S. Post Office, 5th and Busseron Sts. J. B. Bayard, Vincennes, archt. Noted Jan. 29.

Mass., Gloucester—POST OFFICE—Treas. Dpt. at office Sup. Archt., revising plans 2 story, basement, brick, stone, Pleasant St., Dale Ave. and Franklin Sq. $266,500. Former bids rejected. W. T. Aldrich, 30 Newbury St., Boston, Mass., archt. Noted Jan. 14.

Mass., Quincy—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by Parker, Thomas & Rice, 177 State St., Boston, 2 story, basement, brick, stone, Maple St. $240,000. Site selected. Noted Sept. 10.

Neb., Omaha—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by Kimball, Steele & Sandham, 826 World Herald Bld. and G. B. Prinz, 1037 Omaha Natl. Bank, 11 story, basement, 90 x 132 ft., granite, limestone, 15th and Dodge Sts. $740,000. Noted Dec. 17.

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New York—DREDGING—U. S. Eng., Whitehall St., New York, 27,850 cu.yd. other than ledge rock and removing 49,980 cu.yd. ledge rock in Hallets Point Reef Ways Reef and Woolsey Reef, Hell Gate, East River.

N. Y., New York—HOSPITAL—U. S. Veterans' Hospital, Arlington Bldg., Wash., D. C., soon takes bids remodeling neuropsychiatric hospital into general hospital. $350,000. Noted Feb. 18.

R. I., Block Island—FOG SIGNAL HOUSE, etc.—At office Superintendent Lighthouses, St. George, N. Y., soon takes bids fog signal house and dwelling at Great Salt Pond Breakwater.

Tenn., Knoxville—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., soon takes bids 3 story, basement, rein.-con., steel U. S. Post Office. $1,500,000. Baumann & Baumann, 815 Market St., archts. Noted July 7.

Tex., Corpus Christi—BULKHEAD—U. S. Eng., Trust Bldg., Galveston, soon takes bids removing 270 cu.yd. sand and shell from behind concrete bulkhead and damaged coping on sheet pile bulkhead for 70 ft., casting new coping, anchors and placing reinforcing steel.

Wis., Warsaw—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by Oppenheimer & Obel, Green Bay, and E. Brielmier & Sons Co., consult. archts., 425 East Water St., Milwaukee, U. S. Post Office.

Wis., Wausau—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., sketches by Oppenhamer & Obel, Bellin Bldg., Green Bay, brick, rein.-con., plain found. $270,000.

BIDS ASKED

Ala., Montgomery—POST OFFICE, etc.—Mar. 9, by Treas. Dpt. at office Sup. Archt., Wash., D. C., on supplementary revised specifications for U. S. Post Office and Court House.

Calif., Sunnyvale—BOILER PLANT EQUIPMENT, etc.—Specs. 6707 and 6761—Apr. 6, by Yards & Docks, Navy Dpt., Wash., D. C., boiler plant equipment, incl. portable fire boxes, gas burners, smoke breeching, reciprocating boiler feed pumps, deaerating feed water heater, motor-driven vertical shaft hot well and drainage pumps, cooling tower, water softening equipment, etc., also high and medium pressure air and helium piping for repurification of helium, at Naval Air Station.

D. C., Wash.—CABLE—Mar. 7, by Dpt. Commerce, Div. Purchases & Sales, cable.

D. C., Wash.—CAFETERIA—Mar. 11, by Treas. Dpt. at office Sup. Archt., cafeteria (Contr. 2) in U. S. Dpt. Agriculture, extensible building; adv. E. N.-R. Mar. 3.

D. C., Wash.—PAVEMENT—Mar. 9, by Arlington Memorial Bridge Comn. at office Executive Officer, pavement, curbs, gutters, drainage system, etc., on roadway to Ericsson Memorial.

D. C., Wash.—VALVES—Mar. 8, by District Comrs., District Bldg., 10 gates valves, for Water Div.

Fla., Pensacola — SEWERS — Spec. 6506 — Mar. 9, by Yards & Docks, Navy Dpt., Wash., D. C., sewer and drain piping, manholes, sewerage reservoir, pumphouse, curtain walls, motor driven sewage and sump pumps, incl. control equipment, wiring and piping, for sewer and storm drainage systems, at Naval Air Station (Corry Field). $75,000. Noted Feb. 11.

Illinois—EXCAVATING, etc.—Mar. 15, by U. S. Eng., Rock Island, excavating 208,738 cu.yd. in new cut-off channel, and deepening, widening existing channel, South Slough.

Illinois—EXCAVATING, etc.—Mar. 25, at U. S. Eng. Office, 1st Chicago Dist., 333 North Michigan Ave., Chicago, excavating, dredging 428,000 cu.yd. earth and 192,000 cu.yd. rock, place measurement, from Dresden Island Pool between Kankakee Feeder Aqueduct and Brandon Road Lock and Dam, on Illinois River; adv. E. N.-R. Mar. 3.

Ill., Rockford—POST OFFICE—Mar. 21, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted June 18.

Ia., Council Bluffs—REMODELING — Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about Apr. 1 remodeling 1st floor and constructing U. S. Post Office addition. $160,000. J. A. Wetmore, c/o owner, acting superv. archt. Noted Oct. 8.

Ky., Ashland—POST OFFICE—Mar. 17, by Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, extending U. S. Post Office. Noted Feb. 11.

Ky., Lexington—GARAGE—Mar. 8, by Treas. Dpt. at office Sup. Archt., Wash., D. C., additions to Garage Building 3, at U. S. Veterans' Hospital. $25,000.

Mass., Springfield—STEEL—Mar. 7, by Commanding Officer, Springfield Armory, 200,000 lb. hot rolled Manganese steel, Circular 40.

Mich., Lapeer—POST OFFICE—Mar. 18, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office.

Mo., St. Louis—PONTOONS, etc.—Mar. 19, by U. S. Eng., 428 Custom House, twenty 47½ x 16 x 3 ft. steel pontoons; 19 trucks and 65 sections (1,170 ft.) 24 in. diam. discharge pipe.

New Jersey—DREDGING—Mar. 29, by U. S. Eng., 39 Whitehall St., New York, 225,000 cu.yd. material for maintenance in Hackensack River from Little Ferry to Hackensack; adv. E. N.-R. Mar. 3.

N. Y., Glens Falls—REMODELING, etc.—Mar. 9, by Treas. Dpt. at office Sup. Archt., Wash., D. C. remodeling, enlarging U. S. Post Office; adv. E. N.-R. Mar. 3.

N. Y., Hempstead—POST OFFICE—Mar by Treas. Dpt. at office Sup. Archt., W D. C., U. S. Post Office; adv. E. N.-R. Ma Noted Nov. 26.

N. Y., Kingston—REMODELING, etc.— 22, by Treas. Dpt. at office Superv. A Wash., D. C., remodeling, enlarging U. S. Office. J. A. Wetmore, Wash., D. C., a superv. archt.; adv. E. N.-R. Mar. 3.

O., Canton—POST OFFICE—Mar. 31 Treas. Dpt. at office Sup. Archt., Wash., D constructing (except elevator and dumbwa U. S. Post Office; adv. E. N.-R. Mar. 3. N Nov. 26.

O., Marietta—CUTTER-LADDER—Mar. 9 U. S. Eng., Huntington, W. Va., cutter-la incl. machinery; and cross deck, 5 drum ha and hoisting machinery for U. S. Dr Portland.

Tex., Randolph Field—STORAGE TANK Mar. 8, by Con. Q.M., installing two 25,000 steel storage tanks in connection with gaso fueling system, at Randoph Field. Noted Feb.

Tex., Randolph Field—COOLING SYSTEM Mar. 15, at office Con. Q.M., insulation and co ing system in administration building Rando Field. Noted Feb. 11.

Va., Norfolk—QUARTERS—Spec. 6780—M 2, by Yards & Docks, Navy Dpt., Wash., D moving and relocating 9 quarters and 5 gara at Naval Operating Base Air Station. No Feb. 25.

Wis., Appleton—FREIGHT ELEVATOR—M 22, by Treas. Dpt. at office Sup. Archt., Was D. C., freight elevator in U. S. Post Office.

C. Z., Albrook Field—PAVING—Mar. 15, office Dpt., Quartermaster Panama Canal, Quar Heights, water-bound macadam paving Albrook Field.

CONTRACTS AWARDED

Ala., Mobile — HOSPITAL — Treas. Dpt. office Sup. Archt., Wash., D. C., 4 story add tion to U. S. Marine Hospital, to A. Blair, Mon gomery, $313,495. Noted Jan. 21.

Ala., Mobile—ELEVATOR—Treas. Dpt. office Sup. Archt., Wash., D. C., passenger el vator at U. S. Marine Hospital, to Otis Elevat Co., 810 18th St. N. W., Wash., D. C., $5,900 Noted Jan. 28.

Calif., Sunnyvale—ADMINISTRATION—Spe 6708—Yards & Docks, Navy Dpt., Wash., D. C administration building, barracks, and dispensary at Naval Air Station, to R. E. McKe 1128 Central Bldg., Los Angeles, $310,500. (270 days). Noted Jan. 21.

Colo., Monte Vista—POST OFFICE—Treas Dpt. at office Sup. Archt., Wash., D. C., U. S Post Office, to Busboom & Rauh, Salina, Kan $98,000 (360 days). Noted Jan. 28.

Conn., New London—QUARTERS—Treas. Dpt. at office Sup. Archt., Wash., D. C., officers quarters at Coast Guard Academy, to V and M Construction Co., Yonkers, N. Y., $96,898 (330 days). Noted Feb. 2.

D. C., Wash.—DYNAMOMETER BUILDING— Bureau Standards, north and west additions to dynamometer building, to G. W. Wyne, 2539 Pennsylvania Ave. N. W., $38,000 and $5,000 respectively.

Ia., Dubuque—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., clearing site for 3 and 4 story, 112 x 182 ft. U. S Post Office and Court House, to Everett Akins 2370 Cherry St. Total est. $510,000 Noted Jan. 21.

La., Shreveport—FIRE STATION, etc.—Con. Q.M., Barksdale Field, fire station and guard house, to H. W. Underhill Constr. Co., Construction Industry Bldg., Dallas, Tex., $46,466.

La., Shreveport—SEWAGE PUMPING PLANT —Con. Q.M., Barksdale Field, sewage pumping plant, incl. sewage sump pumps, pump pit, motors, shelter, at Barksdale Field, to Hanson & McCorkle, Inc., Alexandria, $13,200. Noted Jan. 21.

Md., Cumberland—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to J. Grant & Son, 5200 Biddulph St., Cleveland, O., $283,890. Noted Jan. 28.

Mass., Rutland Heights—HEATING—Vet. Bu., Arlington Bldg., Wash., D. C., heating and plumbing in new buildings, etc., at Veterans' Hospital, to D. C. Eng. Co., 1400 Spring Rd. N. W., Wash., D. C.; electrical work, to W. R. McLoughlin, Inc., 265 Main St., Worcester; elevators, to Otis Elevator Co., 7 North 2nd St., Richmond, Va. Noted Jan. 14, under "Contracts Awarded."

New Jersey—DREDGING—U. S. Eng., 39 Whitehall St., New York, 11,395 cu.yd. in Passaic River, to Trimont Dredging Co., Wards Island, New York, $16,292. Noted Feb. 11.

N. Y., Ellis Island—HEATING—Commissioner Immigration, heating Hospital Building 1, Island 2, to Gillis & Geohegan, 537 West Bway., New York, $6,695.

N. Y., Mineola — QUARTERS — Concord Casualty & Surety Co., 60 John St., New York, completing abandoned contract bachelor officers and non-commissioned officers' quarters, to Wyckoff Eng. Corp., 50 East 42nd St., New York, $272,000. Noted Oct. 22, under "Contracts Awarded."

N. Y., Potsdam—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Rosen & Fischel, 11 South LaSalle St., Chicago, Ill., $91,900. Noted Jan. 21.

O., Cincinnati—LOCKKEEPERS HOUSES—U. S. Eng., three 1 story frame lockkeepers houses

Federal Government (Continued)

at Lock and Dam 35, to Esker-Vaugh Co., Huntington, W. Va., $4,900. Noted Dec. 31.

Ore., Bend—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to C. Weitz & Son, 713 Mulberry St., Des Moines, Ia., $97,306. Noted Jan. 14.

Va., Langley Field—GARAGE—Con Q.M., garage, to Newport Contg. & Eng. Co., Inc., Lee Hall, $39,800. Noted Jan. 28.

RAILWAYS

PROPOSED WORK

Illinois—Atchison, Topeka & Santa Fe Ry. Co., 80 East Jackson Blvd., Chicago, Ill., G. W. Harris, ch. engr., plans expending $15,000,000 during 1932 for additions and betterments of the system, incl. new rolling stock, rails, tiles, machinery, ballasting, signal systems.

Ohio—Cleveland Railway Co., A. C. Kennedy, purch. agt., Midland Bldg., Cleveland, plans completed renewing street car tracks in various parts of Cleveland, incl. slag ballast. $226,900.

Canada — Canadian National Rys., C. S. Gzowski, ch. engr. constr., Montreal, Que., plans railroad construction for 1932 as follows: from Bulwark, Alberta, easterly, $15,000; Brantford, Ont., cut-off, $312,000; Hemurka-Scapa, Alta., $115,000; St. Walburg, Sask., to Bonnyville, Alta., $35,000; Dalu Island, British Columbia, $171,000.

GRADE CROSSINGS

PROPOSED WORK

Okla., Miami—St. Louis & San Francisco Ry. Co., St. Louis, Mo., F. G. Jonah, ch. engr., preliminary plans new subway under main line. $200,000.

CONTRACTS AWARDED

Calif., Fresno—City Comn. and Southern Pacific Ry. Co., 65 Market St., San Francisco, G. W. Boschke, ch. engr., concrete, rein.-con. and steel underpass (subway) at Belmont Ave. railway tracks, to Thompson Constr. Co., 2150 G St., $57,058.

Pa., Ashland—Reading Co., Reading Terminal, Phila., C. Dillenbeck, ch. engr., overhead railway bridge at Big Mine Run, to F. Kumer, Shamokin, $35,000.

PIERS AND WHARVES

BIDS ASKED

Pa., Phila.—FENDER SYSTEM—Mar. 16, by Delaware River Joint Comn., J. K. Costello, genl. mgr., at Administration Bldg., Bridge Plaza, Camden, N. J., creosoted fender system at Philadelphia Tower Pier, Delaware River Bridge; adv. E. N.-R. Mar. 3.

CONTRACTS AWARDED

Calif., Oakland—PIER SHED—G. B. Hegardt, secy. City Port Comn., general contract 360 ft. rein.-con. extension to Shed 2, to H. Schuster, 354 Hobart St., $36,846; steel frame, to Moore Drydock Co., foot of Adeline St., $12,700. Noted Jan. 28.

N. Y., New York—PIER—Clyde Mallory Lines, lessee, Pier 36, North River, leased substructure Pier 32, will build 2 story, 1,100 ft. superstructure, Canal St., to Babor-Comeau & Co., Inc., Grand Central Terminal. Est., $500,000. Contractor taking bids on structural steel, additional pile driving, etc.

AIRPORTS

PROPOSED WORK

R. I., Warwick—State, Airport Comn., State House, Providence, administration building.

Tenn., Memphis—Memphis Municipal Airport, c/o D. C. Miller, city clk., preliminary plans constructing north and south runways, about 2,600 ft. long, 100 ft. wide, tar macadam surfacing at municipal airport, Winchester and Airways Blvd. W. B. Fowler, City Hall, engr.

BIDS ASKED

La., New Orleans—Mar. 29, by Orleans Levee Bd., Camp and Common Sts., 2 story, 70 x 300 ft., concrete, brick administration building, steam heated, forced ventilation $168,000; steel truss, fireproof emergency and storage building, incl. storage rooms, hospital, fire engine room $18,000; steel truss fireproof 100 x 120 ft. repair shop $30,000; two 125 x 225 ft. steel hangars, 24 ft. high with cantilever truss roofs, brick exterior walls, pile found., plumbing, heating $117,000. National Airport Eng. Co. Ltd., New Orleans, and 775 East Washington St., Los Angeles, Calif., engrs. Noted Oct. 1.

CONTRACTS AWARDED

Mo., Bridgeton—Bd. P. Serv., City Hall, 1 and 2 story, basement, 37 x 58 ft. wide 198 ft long, rein.-con., brick, steel airport terminal building, Lambert St. Louis Flying Field, to Kaplan-McGowan Co., 315 North 7th St., St. Louis, $124,926. Noted Jan. 28.

POWER AND LIGHTING

PROPOSED WORK

N. J., Orange—Pub. Serv. Electric & Gas Co., Orange, and Terminal Bldg., Newark, plans 5 year program, electric distribution, extensions to municipal plant recently purchased. $150,000.

N. Y., Montour—Elmira Water, Light & Railroad Co., Huett Bldg., Elmira, electric distribution system in Schuyler Co. Application for permit made to Pub. Serv. Comn.

N. Y., Rodman — New York Utilities, Inc., Watertown, electric power extensions. Pub. Serv. Comn. granted application of company for permit.

N. Y., Wellsburg — Elmira Water, Light & Railroad Co., Hulett Bldg., Elmira, gas distribution system, Chemung Co. Application for permit made to P. Serv. Comn.

BIDS ASKED

Kan., Oswego—City, E. S. Nance, clk., bids about Mar. 15, natural gas distribution system, incl. 64,000 lin.ft. 1- to 4-in. gas mains, 4 regulators, 16 gate valves and boxes, 10 tons pipe coating, Orifice meter. $32,000. Emporia Eng. Co., Emporia, engrs.

CONTRACTS AWARDED

N. J., Princeton—Coolidge, Shepley, Bulfinch & Abbott, archts., Ames Bldg., Boston, Mass., electrical work for animal plant pathology laboratory, for Rockefeller Institute, York Ave. and 66th St., New York, to J. F. Hughes, 68 Thomas St., New York; elevators, to Otis Elevator Co., 130 Clarendon St., Boston, Mass. To exceed $20,000. Noted Dec. 3, under "Unclassified, Contracts Awarded."

New York—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., Brooklyn, furnishing, installing station and tunnel lighting equipment, incl. electric heating and ventilating system for Independent System City-Owned Subways from 36th St. to Roosevelt Ave. Stations (inclusive), Queens Boro, to L. I. Waldman & Co., 241 East 36th St., New York, $77,698. Noted Feb. 2.

New York—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, furnishing, installing connections and track bonding for part Independent System City-Owned Rapid Transit Railroads extending from Hudson Terminal, Manhattan Boro to Jay St. and from Concord to Jay Sts. to Avenue C and Gravesend Aves., Brooklyn Boro, to Erickson Equipment Co., 452 Lexington Ave., New York, $116,400. Noted Jan. 28.

N. Y., Brooklyn—New York Rapid Transit Co. (B.M.T. Lines), 385 Flatbush Ave., automatic train tripping devices on Myrtle Ave. Line, Navy and Adams Sts., to Bway. and Fulton St. between Tillery St. and East New York Ave., to General Railway Signal Co., 230 Park Ave., New York. Est. $500,000.

PARKS AND SPORTS

PROPOSED WORK

Ill., Freeport — City, Bd. Park Comrs., C. Demiter, pres., park improvements, incl. paving roads, artesian well, power water pumps, storm sewers, concrete retaining walls, swimming tank, playground equipment. $50,000. **Maturity in late spring.** A. F. Stanley, City Hall, engr.

Ill., Moosehart—See "Commercial Buildings."

Mass., Boston—City, Park Dpt., 33 Beacon St., soon takes bids 1 story, brick, timber antelope house addition, Franklin Park, Dorchester. $50,000. J. G. McGann, 129 Newbury St., archt. Noted Feb. 4.

Miss., Jackson—Millsaps College, D. M. Key, pres., revised plans by H. N. Austin, Jackson, 1 story, basement, sub-basement, 115 x 176 ft., rein.-con., brick, steel, hollow tile gymnasium. $40,000.

N. Y., Bayside—Dpt. Parks, Arsenal Bldg., Central Park, New York, improving 11 2/3 acres for park and playgrounds. Site purchased.

N. Y., Brooklyn—Dpt. Parks, W. R. Herrick, pres. Park Bd., Arsenal Bldg., Central Park, New York, park and playground development square block, Erasmus St. and Verona Pl. To exceed $100,000. Site to be acquired by condemnation proceedings.

N. Y., Far Rockaway—Oceanedge Developers, 35-11 Edgemere Ave., Edgemere, 1 story, 186 x 220 ft. frame bath houses, Sprayview Ave. and Beach 35th St. D. M. Ach, 1 Madison Ave., New York, archt.

N. Y., Pelham Manor—Village plans Marine Park on 7 acre site of underwater land to be filled, Long Island Sound. To exceed $25,000. Site acquired.

O., Cleveland—City, R. I. Miller, mayor, plans by H. Kregelius, 504 City Hall, 1 story, brick, steel, concrete swimming pool, Washington Park. $160,000.

CONTRACTS AWARDED

Mass., Brockton — Commonwealth of Massachusetts, Dpt. Agriculture, 1 story, 90 x 100 ft., brick, concrete, exhibition building, plain found., Fair Grounds, to R. H. Sewell, East Central St., Franklin, $38,885. Est. $50,000.

N. Y., New Rochelle—Wykagyle Country Club, 1025 North Ave., reconstructing club house, incl. locker and shower rooms, swimming pool, North Ave., destroyed by fire, to E. E. Paul Constr. Co., 101 Park Ave., New York. To exceed $100,000.

HEATING AND VENTILATING

PROPOSED WORK

N. Y., New York—Sutton Studios, 233 Bway., soon lets contract fire tower, elevator, plumbing, and mechanical equipment, at studio at 1033 1st Ave. S. W. Katz, 49 West 45th St., archt., Noted Jan. 28.

Man., Winnipeg—City, M. Petersen, city clk., City Hall, soon takes bids heating, ventilating, plumbing, electrical work for new 160 x 380 ft. steel, concrete civic auditorium, St. Mary's St. and The Mall. $150,000. Noted Jan. 28, under "Public."

BIDS ASKED

Neb., Lincoln — Mar. 15, by University of Nebraska Dormitory Corp., at office Operating Superintendent, heating and plumbing, hardware, elevator, electric fixture contracts at Women's Dormitory buliding. Davis & Wilson, 525 South 13th St., archts. Noted Dec. 24.

UNCLASSIFIED

PROPOSED WORK

Massachusetts — CULVERT, etc. — Boston & Maine R.R. Co., North Station, Boston, pipe culvert and fill solid in tidewater at bridge over Belle Isle Inlet, Boston and Revere. $25,000.

O., Cleveland—BOILERS, STACK, etc.—Bd. Educ., F. G. Hogan, dir., plans by C. W. Hopkinson, archt. and engr., Administration Bldg., rein.-con., brick boilers, stack and coal vault, 7351 Bway. $40,000.

Pennsylvania—TELEPHONE CABLE LINE—Bell Telephone Co. of Pennsylvania, 1835 Arch St., Phila., subsidiary Amer. Telephone & Telegraph Co., 195 Bway., New York, cable line extension from Harrisburg to Reading. To exceed $25,000.

Tenn., Nashville—BROADCASTING STATION—National Life Insurance Co., 4th and 1st Natl. Bank Bldg., plans by Hart, Freeland & Roberts, Independent Life Insurance Bldg., 2 story, 55 x 66 ft., rein.-con., brick, plain found. $25,000.

MATERIALS

PROPOSED WORK

ROAD OIL—**Mankato, Minn.**—B. E. Lee, auditor Blue Earth Co., purchasing 100,000 gal. road oil. C. J. Swift, co. hy. engr.

CASTINGS—**Minneapolis, Minn.**—City purchasing special castings for Water Dpt. $3,000. N. W. Elsberg, city engr.

CULVERT PIPE, CEMENT, etc.—**Warrenton, Va.**—Bd. Supervs. Faquier Co., T. B. Glasscock, chn., will be in market after Apr. 1, culvert pipe, cement, bituminous treatment material. $25,000. W. W. Sanders, Warrenton, co. engr.

BIDS ASKED

TAR, ASPHALT, etc.—**Hartford City, Ind.**—Mar. 7, by Bd. Comrs. Blackford Co., L. Speidel, aud., tar, road oil, asphalt for roads. $5,000.

ASPHALT, etc.—**Indianapolis, Ind.**—Mar. 7, by City, City Hall, A. H. Losche, purch. agt., 100 drums cut-back asphalt; 300 drums emulsified asphalt; 50,000 1st grade paving brick; 300 tons lake cicotte sand; 500 tons refined asphalt; 1,000 tons stone dust; 150,000 gal. road oil. $5,000.

PIPE, LUMBER, etc.—**Orange City, Ia.**—Mar. 8, at office Auditor Sioux Co., 8,360 lin.ft. corrugated metal pipe, 1,450 lin.ft. concrete pipe, 147,960 Bd. ft. untreated and 36,736 bd. ft. treated lumber, 6,866 lin.ft. treated piling.

OIL, CULVERT PIPE, etc.—**Waverly, Ia.**—Mar. 8, at office Auditor Bremer Co., 2,750 gal. motor oil, 3,000 lb. grease, 70,000 gal. gasoline, 2,830 ft. 15 in., 4,838 ft. 18 in. and 1,808 ft. 24 in. culvert pipe, 142,650 ft. Class A and 11,800 ft. Class C standard sawn fir lumber.

PIPE, OIL, LUMBER, etc.—**Webster City, Ia.** Mar. 9, at office Auditor Hamilton Co., 3,600 ft. 15 in., 1,260 ft. 18 in., 1,260 ft. 24 in. culvert pipe, 90,000 gal. gasoline, 3,000 gal. lubricating oil, 3,000 lb. pressure gun grease, 1,104 ft. creosoted piling, 26,416 bd. ft. creosoted lumber.

CAST IRON PIPE—**Cleveland, O.**—City taking bids 1,160 tons c.i. pipe and 60 tons pig lead for Water Dpt.

CAST IRON PIPE—**Wooster, O.**—City, J. E. Fox, service dir., bids during March 3,000 ft. 4- to 10-in. c.i. pipe with fittings and various fire hydrants.

PIPE—**Pierre, S. D.**—Mar. 10, by State Hy. Comn., 29,950 lin.ft. 15- to 42-in. concrete pipe.

BITUMINOUS MATERIAL — **Virginia** — Mar. 11, by State Hy. Dpt., Richmond, furnishing 12,447,000 gal. cold surface treatment and cold patch, applying 5,521,600 gal. surface treatment material; adv. E. N.-R. Mar. 3.

CABLE, etc.—**Appleton, Wis.**—Mar. 10, by City, C. J. Becker, clk., 1,800 ft. 8 conductor No. 14, solid spiral weave cable; 1,000 ft. 2 conductor No. 14 solid weave cable; 3,500 ft. 3.8 in. Siemers Martin Messengers stranded galvanized, 6,950 lb. strength, 2,500 ft. 3½ in. National aerial cable rings; twenty-four 6 in. 3 bolt clamps, 24 strain insulators. Private plans.

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Materials (Continued)

CONTRACTS AWARDED

CAST IRON PIPE—**Long Beach, Calif.**—City, furnishing 100,080 ft. 6 in., 50,040 ft. 8 in., 20,160 ft. 12 in. c.i. pipe, 18 ft. lengths, to U. S. Pipe & Fdry. Co., 2326 East 8th St., Los Angeles, $76,934.

BRASS SERVICE PIPE FITTINGS — **Baltimore, Md.**—Bd. Awards, furnishing, delivering brass service pipe fittings to Bureau Water Supply, to Hays Mfg. Co., 801 West 12th St., Erie, Pa., $4,878. Noted Jan. 28, under "Waterworks."

CONDUIT — **Baltimore, Md.** — Bd. Awards, multiple vitr. clay conduit for Bureau Mechanical-electrical service, to Pen Mar Co., Munsey Bldg., at $0.0568 per ft.

ASPHALTIC CEMENT—**Minneapolis, Minn.**—F. S. Gram, city purch. agt., 5,000 tons ashpaltic cement, to Standard Oil Co. of Louisiana, 701 Railway Exch. Bldg., Chicago, Ill., $15.30 per ton f.o.b. Minneapolis. 2,000,000 paving brick, to Purington Paving Brick Co., Galesburg, Ill., $80,000. Noted Feb. 9.

ROAD OIL—**Minneapolis, Minn.**—F. S. Gram, city purch. agt., 3,000,000 gal. road oil, to Standard Oil Co. of Indiana, 1300 Harmon Pl., at $0.053 per gal. Noted Feb. 18.

TAR — **Trenton, N. J.** — State Hy. Comn., Trenton, 50,000 gal. Grade KP tar for cold application, to T. Tobish, 52 West State St., $7,950. Noted Feb. 4.

PORTLAND CEMENT—**New York, N. Y.**—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., 5,000 bags portland cement, to G. B. Raymond & Co., 3062 Webster Ave., $1,987; 100,000 gal. fuel oil, to Shell Eastern Petroleum Co., 122 East 42nd St., $3,300; 17,000 cu.yd. steam cinders, to Empire Cinders Delivery Co., East River and 59th St., $13,770. Grand total $19,057. Noted Feb. 11.

SAND—**New York, N. Y.**—S. Levy, pres. Manhattan Boro, Municipal Bldg., 3,500 cu.yd. concrete and paving sand, to Colonial Sand & Stone Co., 551 5th Ave., $5,915. Noted Feb. 11.

ROAD OIL—**Freehold, N. J.**—Bd. Freeholders Monmouth Co., Court House, 16,000 gal. Tarvia dressing, to W. G. Harrington Co., 28 South St., at $0.375 per gal. Rejected bids Feb. 17, 235,000 gal. asphaltic road oil dressing.

PIPE—**Winnipeg, Man.**—City, M. Peterson, clk., City Hall, to Jackson & Sons, 370 Colony St., furnishing 6 ft. diam. concrete pipe at $12 per ft., 4 ft. diam. concrete pipe at $8 per ft., concrete segment blocks for 7 ft. diam. sewer at $0.80 per block, above in connection with Ash St. and Jackson Ave. sewer (now under construction). Tax to be added to above prices. Noted Oct. 8 under "Sewers."

EQUIPMENT

PROPOSED WORK

PUMP—**Chaska, Minn.**—City purchasing 300-500 g.p.m. deep well turbine pump. F. U. Splettstoesser, city clk.

TRUCKS, etc.—**Rochester, Minn.**—City, A. F. Wright, clk., purchasing 2 trucks, sprinkling-flusher unit.

TRUCKS—**Utica, N. Y.**—City, C. A. McKernan, comr. P. Wks., purchasing motor equipment (trucks) for collection of garbage, without competitive bidding. $54,000.

WATER WHEEL, etc. — **Lakefield, Que.**—Dawson Bros., Lakefield, purchasing one Little Giant water wheel 24 in., right hand shallow buckets.

BIDS ASKED

FIRE TRUCK, etc.—**Ames, Ia.**—Mar. 7, by A. B. Maxwell, city clk., furnishing quadruple combination fire truck, f.o.b. Ames.

WOODWORKING PLANT EQUIPMENT — **Cannelton, Ind.**—Lehman Co. of America, c/o E. A. Lehman, in market double surface glue jointer and other equipment for woodworking plant at Jackson, Miss.

PUMP—**Indianapolis, Ind.**—Mar. 8, by Sanitary Commissioners, O. C. Ross, pres., City Hall, fabricating, furnishing, installing centrifugal pump. $1,000.

GRADER—**Brainerd, Minn.**—Mar. 7, by City, 10,000 to 15,000 lb. street grader. E. T. Fleenor, city clk.

GRADERS—**Glencoe, Minn.**—Mar. 17, by J. J. Leasman, aud. McLeod Co., 2 pull-type speed graders. I. C. Christlieb, Glencoe, co. hy. engr.

DUMP TRUCKS, ASPHALT CEMENT, etc.—**Cincinnati, O.**—Mar. 9, by C. E. Lex, Jr., city purch. agt., Room 143, City Hall, nine 3 cu.yd. dump trucks; 2,000 tons asphalt cement; 50,000 gal. road oil; 10,000 tons lake sand; 6,000 tons washed sand; 4,000 tons crushed stone; 1,400 tons sheet asphalt filler dust.

TRACTOR, etc.—**Sayre, Pa.**—Mar. 7, by Boro. G. D. Bonfoey, secy., caterpillar tractor and road scarifier. $1,800.

WATER METERS—**Chilton, Wis.**—City, taking bids 100 new water meters. A. J. Pfeffer, clk.

SHOVEL—**Green Lake, Wis.**—Green Lake Co., W. R. Jenkins, comr., in market power shovel.

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CONTRACTS AWARDED

CURB COCKS, etc.—**Minneapolis, Minn.**—City, 3,000 each curb cocks and corporation cocks, to Janney, Semple, Hill & Co., Marquette Ave. and 2nd St., at $0.459 and $1.12 each respectively with 2% cash discount. Noted Jan. 28.

DRILL PRESS—**Minneapolis, Minn.**—Transit Supply Co., Snelling and University Aves., subsidiary Twin City Rapid Transit Co., W. L. Larson, purch. agt., in market drill press 1½ in. capacity, $700; 1 brake for bending sheet metal, 16 gage material.

WATER METERS—**Wenatchee, Wash.**—City Council, 300 water meters, to Neptune Meter Co., 525 Johnson St., Portland, Ore., $3,900.

FOREIGN

U. S. S. R., Leningrad—Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, plans 34 mi. trolley line extensions. Work will proceed at once for completion this year.

Commercial Buildings

PROPOSED WORK

Ark., Little Rock—Southwestern Bell Telephone Co., 11th and Pine Sts., St. Louis, Mo., soon takes bids 3 story (ultimately additional stories) basement, 88 x 160 ft., rein.-con., brick exchange addition, 7th and Louisiana Sts. I. R. Timlin, 1916 Telephone Bldg., archt.

Calif., Beverly Hills — Secretary Bd. Educ., soon takes bids high school addition, 241 Moreno Dr., for Beverly Hills High School, 241 Moreno Dr. $150,000. A. S. Nibecker, Jr., 1624 Bushnell St., South Pasadena, archt.

Calif., Westwood—Harvard School for Boys, 1601 South Western Ave., Los Angeles, plans by Gates Wilson Burrows and Webber & Spaulding, 627 South Carondelet St., Los Angeles, group fireproof bulidings, also natural amphitheatre and athletic field, on 25 acre site, Beverly and Sapulveda Blvds. Program calls for expenditure of $1,000,000 to be raised by subscription and the sale of school's property on Western Ave. A fund for first unit (library) has been subscribed. R. D. Johnson, 707 Architects Bldg., Los Angeles, consult. archt.

Ill., Mooseheart — Loyal Order of Moose sketches by R. E. Abel, 176 West Adams St., Chicago, 2 story, basement, irregular sized rein.-con., brick, steel, stone high school, gymnasium, 1,800 seating auditorium, swimming pool, plain found. $750,000. **Maturity in 1933.** Noted Apr. 30.

Me., South Portland (br. Portland)—City, School Bd., 2 story, basement, brick school. $150,000. Architect not appointed.

Md., Baltimore—J. F. Eyring, archt., 808 South Conkling St., soon lets contract administration, auditorium and school buildings, (3) each 2 story, brick, limestone, rein.-con., Conkling St., Highlandtown, for Sacred Heart Roman Catholic Church, J. M. Beierschmidt, pastor, 600 South Conkling St. Kubitz & Koenig, Emerson Tower, engrs.

Mass., Boston—City, Dpt. School Buildings., soon takes bids 2 story, basement, brick, stone, steel, plain found. Prescott Emerson Dist., East Boston. To exceed $150,000. Desmond & Lord, 1 Beacon St., archts. Noted Oct. 22.

Mass., Marlboro—St. Ann's Italian Roman Catholic Church, c/o R. C. Corrani, 175 Green St., Worcester, rejected bids 1 story, basement, brick, stone, plain found., Lincoln St. $150,000. Will readvertise. Noted Jan. 28.

N. Y., Holland—Central School Dist. 1, for Colden, Wales and Holand, bids about end March, 2 story, basement, 120 x 270 ft. school. $200,000. Bley & Lyman, Delaware Ave., Buffalo, archts.

N. Y., Long Island City—City and Suburban Homes Co., 578 Madison Ave., New York, plans by A. Goldhammer, 40 East 49th St., New York, 6 story, 190 x 450 ft. apartment, 5th Ave. and 44th St. $1,250,000.

N. Y., New Brighton—Bd. Educ., 500 Park Ave., New York, soon takes bids P. S. 49. $264,000. Revised plans approved W. C. Martin, Flatbush Avenue extension and Concord, Brooklyn, archt. Noted Apr. 23.

N. Y., New York—Bd. Educ., 500 Park Ave., plans approved P. S. 60, 163rd St. and Stebbins Ave. $200,000. W. C. Martin, Flatbush Ave. extension and Concord St., Brooklyn, archt.

N. Y., New York—W. Hagedorn, 1896 1st Ave., 3 story, 110 x 164 ft. store, office, Valentine Ave. and Fordham Rd. $300,000. C. Schaefer, 332 East 149th St., archt. **Maturity in fall.** Project held up pending construction permit. Noted Sept. 17.

N. Y., New York—Corporation, c/o F. Pettit, archt., 1780 Bway., revised sketches apartment hotel to exceed 30 stories high, Riverside Dr. and 73rd St. To exceed $8,000,000. **Maturity in fall or later.** Noted June 4.

N. Y., White Plains—W. Netter, 113 West 42nd St., New York, and 265 Old Mamaroneck Rd., sketches by W. La Zinsk, Stone Ave., Elmsford, 35 acre residential tract development, incl. 150 homes, Old Mamaroneck Rd. To exceed $1,000,000.

N. Y., Yonkers—R. C. Associates, Inc., H. A. Lenhart, secy., 11 West 42nd St., New York, plans by E. T. See, 299 Madison Ave., New York, 15 acre residential development, Central Ave. $1,000,000.

N. D., Bismarck—State Comrs. sketches by W. F. Kurke & J. Bell DeRemer, Bismarck, 18 story brick, steel capitol building 130,000 sq.yd. floor space. $2,000,000. Holabird & Root, 333 North Michigan Ave., Chicago, Ill., assoc. archts. Noted Feb. 2.

Pa., Clark Summit (Scranton)—Clark Summit Bd. Educ., soon takes bids 2 story, basement, 65 x 100 ft., brick, stone high school addition incl. gymnasium, showers, offices. $150,000. A. J. Ward, Lackawanna Trust Bldg., Scranton, archt.

R. I., Providence—Moses Brown School, L. R. Thomas, head master, soon takes bids 2 story, basement, 100 x 200 ft., brick, concrete, stone preparatory school addition, Hope St. $150,000 or more. Morris & Erskine, 1716 Cherry St., Phila., Pa., archts., completing plans. Noted Dec. 10.

Wash., Tacoma—College of Puget Sound, E. H. Todd, pres., plans 10 year building program incl. dormitories, 2nd science hall, fine arts buildings, gymnasium, wood products building and additional athletic facilities. $5,000,000. Money to be raised in form of endowments.

Tex., San Angelo — Estate of Mrs. M. A. Shannon, N. E. Jackson, atty., J. S. Hixon, chn. Bd. Trustees to administer funds, 111 East Harris St., according to will of estate funds will soon be available to construct hospital plant. Administrators in meantime will take over San Angelo Hospital plant to serve as 1st unit of proposed plant. $1,500,000. Noted Jan. 21.

Ont., Hamilton—Toronto, Hamilton & Buffalo Ry. Co., Hamilton, R. L. Latham, ch. engr., bids in April or later, general contract new depot. $3,000,000. Felheimer & Wagner, 155 East 42nd St., New York, engr. Noted Oct. 22.

Ont., London—O. R. Moore, archt., 489 Richmond St., soon lets contract 4 story, basement, 75 x 180 ft., brick, steel, concrete store, for T. F. Kingsmill, 218 Dundas St. $150,000. Noted Jan. 21.

BIDS ASKED

Conn., Danielson—Mar. 7, by State, W. F. Ladd, State Armory, rebuilding 1 and 2 story, basement, 100 x 140 ft. brick armory and drill shed. $150,000. Payne & Keefe, 231 State St., New London, archts.

Mass., Cambridge — St. Peters Episcopal Church, c/o Allen & Collens, archts., 75 Newbury St., Boston, bids about Mar. 1, remodeling 1 story, basement, brick, stone, plain found., Mass. Ave. and Vernon St. $150,000 or more. Noted Jan. 7.

Mass., Fall River—St. Mathew's Roman Catholic Parish, G. F. Cain, 82 St. Marys St., taking bids 3 story, basement, brick convent. $150,000. W. F. Fontaine, 285 Main St., Woonsocket, R. I., archt.

Mass., Winchester — First Church of Christ Scientist, taking bids altering and constructing 1 and 2 story, basement, brick, stone addition. plain found., Mt. Vernon St. $150,000. H. O. Glidden, 44 Hillcrest Park, archt.

N. Y., New York—Mount Sinai Hospital, 1 East 100th St., bids about Apr. 15, general contracts altering 5 story, basement, brick, steel hospital, incl. elevator extensions, bridge over court, dispensary, etc., 101st St. and 5th Ave. $150,000. Gehron & Ross, 1 Park Ave., archts. Noted Dec. 17.

N. Y., Woodside—See "Contracts Awarded."

N. C., New Bern—Lord Craven Hotel Corp., R. Fuson, pres. and archt., 209 Hook Drug Bldg., Bloomington, Ind., L. H. Banks, secy.-treas., New Bern, owners, bids about Mar. 15, 9 story, basement, 91 x 121 ft., rein.-con., brick, stone hotel, concrete founds., 2 elevators, steam heating, air conditioning system, 1,000 ft. slip piling sea wall. $500,000. Bevington Williams, Inc., 1134 Indiana Pythian Bldg., Indianapolis, Ind., consult. engrs.

Ore., Sheridan—Dougan & Reverman, archts., Kramer Bldg., Portland, bids about Mar. 15, 4 story, basement, 240 x 366 ft. steel, brick, school at Jesuit Center, near here, for Novitiate Society of Jesuits. $400,000. Noted July 16.

R. I., West Warwick—Christ the King Roman Catholic Parish, J. A. Forest, pastor, taking bids 1 and 2 story, basement, brick, stone church and rectory, plain founds., New London St. and Warwick Ave. $150,000. W. F. Fontaine, 285 Main St., Woonsocket, archt.

Tex., College Station—A. & M. College, taking competitive bids 2 story, basement, brick, rein.-con. agricultural college, plain found. $200,000. F. E. Giesecke, College Station, college archt. Noted Nov. 12, under "Contracts Awarded, Separate Contracts."

Tex., Longview—Mar. 15, by Gregg Co., c/o W. R. Hughes, judge, 7 story, 93 x 130 ft., brick, terra cotta, steel, rein.-con. court house and jail. $200,000. Voelker & Dixon, 207 Perkins & Snyder Bldg., Wichita Falls, archts. Noted Feb. 25.

Commercial Buildings (Continued)

Ont., Galt—Mar. 14, by G. Hogarth, deputy minister Dpt. P. Wks., Parliament Bldgs., Toronto, Girl's Training School, incl. school building, dormitories A and B, administration building, Galt-Preston Hy., near here. $250,000.

CONTRACTS AWARDED

Mass., Boston—Transit Dpt., 2 story, basement, brick, stone tunnel administration building, plain found., North St., to Thomas O'Connor & Co., 238 Main St., Cambridge. Est. exceeds $150,000. Noted Feb. 18.

Mass., Cambridge—H. L. Niles, 44 School St., Boston, 4 story, basement, brick, stone, plain found., 881 Mass. Ave., recently destroyed by fire, to E. S. Butterfield Co., 88 Broad St., Boston. Est. $160,000. Noted Feb. 25, under "Contracts Awarded."

Mass., Worcester — All Saints Episcopal Church, J. H. Lever, pastor, 13 Ashland St., rebuilding 1 story, basement, stone church, to E. J. Cross Co., 82 Foster St. Est. $300,000. Noted Feb. 4.

N. J., Union—F. A. Elsasser, archt., 1000 Stuyvesant Ave., general contract 2 story, basement, brick, steel office, store and post office, to F. D. Trainor & Son, Inc., 12 Smith St., Irvington; steel, to Elizabeth Iron Wks., 127 Franklin St., Elizabeth. Est. $150,000. Noted Jan. 28.

N. Y., New York—Henry Mandel, 10 East 40th St., 19 story, 18th St. and 7th Ave., separate contracts. To exceed $1,000,000 **Maturity in fall or later.** Farrar & Watmaugh, 10 East 40th St., archts. Noted Apr. 30.

N. Y., Woodside—C. X. Mathews, 53-05 Roosevelt Ave., apartment, Aukener Ave. and 82nd St., separate contracts. To exceed $150,000, Private plans.

Pennsylvania—State Dpt. Properties & Supplies, Harrisburg, general contract cottage and attendants' building at Wernersville State Hospital, Wernersville, to David Tietz & Son, Frackville, $95,800; brick, stone dormitory at State Hospital for Crippled Children at Elizabethtown and gymnasium addition, fire tower, freight lift at State Teachers' College at Bloomsburg, to Berwick Lumber & Supply Co., Berwick, $62,305 and $23,370 respectively. Grand total $181,475.

Pa., Polk — Bd. Comrs. Pennsylvania Polk State Hospital, H. M. Watkins, supt. general contract 2½ story, 46 x 189 ft. and two 68 x 145 ft. wings, brick, stone, steel, hollow tile, rein.-con., to R. B. McDanel Co., 400 7th Ave., New Brighton, $250,787; heating and plumbing, to W. M. Clark Co., 297 South Beaver St., New Castle, $15,000 and $23,950 respectively; electrical work, to Morganstern Electric Co., 334 Boulevard of Allies, Pittsburgh, $7,514. Grand total $297,251. Noted Jan. 21.

Man., Winnipeg—City, Chairman Special Com. on Unemployment Relief Works, City Hall, 2 story, basement, 160 x 380 ft. civic auditorium building, to Carter-Halls Aldinger Co., Royal Bank Bldg., $837,729. Noted Jan. 28.

Ont., Gravenhurst — National Sanatorium Assn., 223 College St., 5 story, basement, 35 x 130 ft., steel, hollow tile hospital addition, to Jackson Lewis Co. Ltd., 1114 Federal Bldg., Toronto. Noted Jan. 7.

Ont., Hamilton—Hamilton Health Assn., W. J. Aitchison, pres., 4 story, 60 x 225 ft., brick, steel private patients pavilion at Mountain Sanatorium, to Poag & Kemp, 9 Westinghouse Ave. $175,000. Noted Nov. 26.

Industrial Buildings

PROPOSED WORK

Calif., San Francisco—Electrical Products Corp., 950 30th St., Oakland, sketches factory and office building, 12th and Market Sts. To exceed $40,000. Private plans.

Calif., Ukiah—Pacific Gas & Electric Co., reconstructing Potter Valley power house, 15 mi. northeast of here, incl. installing 8,500 hp. hydraulic turbine and new generator to replace two 2,500 hp. generators, also rearranging interior layout, incl. new circuit breakers, switchboards, related equipment, installing modern equipment, bringing installed capacity up to 12,750 hp. With same volume of water passing through the new generator, the new generating equipment efficiency of plant will be increased 46 to 85 per cent.

Conn., Hartford—Highland Ice Co., 319 Sigourney St., plans by R. E. Palmer, 56 Suffolk St., Holyoke, Mass., 1 story, 50 x 125 ft., rein.-con., brick ice plant, 50 tons daily capacity, Wethersfield Ave. $75,000.

La., New Orleans—Hartman-Salmen Co., Inc., 3901 Carrollton St., plans by Rathbone De Ruys, Hibernia Bldg., and soon takes bids 1 story, 60 x 260 ft., rein.-con., brick ink plant, rein.-con. found., South Jefferson Davis Parkway. $50,000.

Mass., Taunton—Brownell & Burk Co., Washington St., rebuilding 2 story factory, Washington St. and Hodges Ave. $60,000. Private plans.

Neb., Omaha—Metropolitan Utilities Dist., 18th and Harney Sts., sketches 15,000,000 cu.ft. capacity water gas on time contract. C. D. Robinson, ch. engr., c/o owner, engr.

N. J., Orange—See "Power and Lighting."

N. J., Plainfield—Harold E. White, Inc., 417 Cleveland Ave., plant addition, 417 Cleveland Ave. $40,000. **Maturity indefinite.**

N. Y., Brooklyn—Maxweld Corp., C. Maxwell, pres., bids after Apr. 1, general and separate contracts 1 story plant addition, 13th St. E. and 2nd Ave. Scott & Prescott, 34 West 23rd St., New York, archts. Noted Feb. 11.

N. Y., Long Island City—Valentine Schiller, 3064 41st St., 1 story, 50 x 100 ft. service garage and shop, 47th St. and 25th Ave. Private plans.

N. Y., New York—W. Peat, c/o S. J. Kessler, archt., 125 West 45th St., sketches 2 story, 100 x 150 ft. service garage, 416 West 204th St. $90,000.

N. Y., New York—Broadwashington Corp., 61 Bway., plans by A. F. Winter, 233 Bway., 2 story storage and stockroom, 3809 Bway. $40,000.

N. Y., New York—Corporation, c/o N. Wallenstein, 271 Madison Ave., plans by E. Weck, c/o owner, 6 story, 100 x 100 ft. storage and loft, 346 West 40th St. $150,000.

N. Y., New York—Three Hundred Fifty West 40th Street Corp., 271 Madison Ave., plans by E. Weck, c/o owner, 6 story, 90 x 100 ft. storage garage, 346 West 40th St. $125,000.

O., Cleveland—Cleveland Railway Co., G. D. McGwinn, pres., 600 Midland Bldg., three 1 story, brick, steel, concrete converting stations. $170,000. L. P. Bale, Midland Bldg., archt. and engr.

Pa., Edgeley—Owner, c/o Haenicken Eng. Co., archts. and engrs., 222 West Bway., Paterson, N. J., 2 story, basement, 90 x 200 ft., rein.-con., brick, steel paper plant, plain found., State Rd. to Delaware River. $40,000 or more.

Pa., Indiana—Diamond Glass Ware Co., H. W. Thomas, in charge, 565 Water St., rebuilding 1 story, 88 x 150 ft., brick, steel glass plant, College Ave. **Maturity about Apr. 1.** Engineer not appointed.

Pa., Nanticoke—Pure Ice Co., Mill St., remodeling old foundry building and installing machinery for making artificial ice. $200,000.

R. I., Newport—H. L. Rooney, 116 Bellevue Ave., plans by E. M. Corbett, 49 Purchase St., Fall River, Mass., 1 story, rein.-con., brick, steel garage, service and sales building. $50,000.

Wis., Wisconsin Rapids—Standard Oil Co., C. Monson, dist. mgr., LaCrosse, 1 story, 50 x 100 ft. warehouse and plant. Private plans.

Ont., Port Arthur — Farmers Assn., E. T. Ross, chn., 47 Balsam St., cold storage plant. $50,000.

Que., Rougemont—Model Table Co., N. Giard, factory. $40,000.

Que., Quebec City—F. Canac-Marquis Glue Co., 3 Courcelette St., factory, St. Marie d'l Incarnation St. $125,000.

BIDS ASKED

Conn., New Haven—Berger Bros., 35 Derby Ave., taking bids 5 story, 40 x 120 ft., brick surgical apparatus plant. Derby Ave. $75,000. D. Orr, 956 Chapel St., archt. Noted Sept. 17.

Conn., West Haven (br. New Haven)—Hygienic Ice Co., 881 State St., New Haven, taking bids 1 story, 60 x 90 ft., brick, steel ice plant, Elm St. $40,000. Private plans.

Ill., Chicago—Geola Storage Co., 2219 Cottage Grove Ave., taking bids (invitation only) razing interior 5 story, basement, 50 x 72 ft., terra cotta, brick warehouse, and rebuilding interior with rein.-con. 2219 Cottage Grove Ave. $50,000. F. Stanton, 307 North Michigan Ave., archt.

Mass., Northampton—Mar. 10, by Clarke School for Deaf. M. Leonard, Round Hill Rd., and Fechheimer & Ihorst, Provident Bldg., Cincinnati, O., archts., boys' and girls' work shop buildings, Round Hill Rd. $40,000 or more. Noted Dec. 17.

Neb., Omaha—Metropolitan Utilities Dist., C. D. Robinson, ch. engr., 18th and Harney St., bids about Apr. 1, gas purifier plant, steel purifier box, and gantry crane for removing covers. Award will include installing but not connections. $62,000.

N. J., Rahway—Merck & Co., Inc., Lincoln Ave., bids about Mar. 1, general contract 1 and 2 story, basement, brick, steel addition. $150,000. J. Salmond, Jr., 526 Elm St., Arlington, archt. C. B. Lewellyn, c/o owner, engr.

Wis., Green Bay—See "Contracts Awarded."

Wis., Kaukauna—Thilmany Pulp & Paper Co., taking bids 1 story, 135 x 200 ft. brick, rein.-con. paper bag plant. $40,000. Private plans.

CONTRACTS AWARDED

Ala., Anniston—Avalon Building Corp., brick, concrete addition thread mill to Duke & Stickney, Anniston. Est. exceeds $100,000. Utica Knitting Co., Anniston, lessee.

Ga., Lafayette—Peerless Woolen Mills, steel mill unit, concrete founds. to J. M. Allen & Co., Chbin Bldg., Chattanooga, Tenn. Est. $100,000.

Ill., Chicago—Cromwell Paper Co., 4801 South Whipple St., general contract 1 story, 89 x 215 ft., brick, steel, rein.-con., terra cotta factory addition, plain found., 47th and Whipple Sts., to E. W. Sproule Constr. Co., 2001 Pershing Rd. Est. $50,000.

Ill., Chicago—A. B. T. Mfg. Co., 3311 Carroll Ave., 2 story, 30 x 90 ft., brick, concrete, rein.-con. rear factory addition, plain found., 3311 Carroll Ave., to G. Lindell, 4601 North Avers St. Est. $80,000.

Mass., Norfolk—Commonwealth of Massachusetts, Dpt. Correction, Boston, altering 1 story, brick power plant at State Prison Colony, to Palmer Steel Co., 44 Bromfield St., Boston. $40,000.

Mass., Somerville—Standard Oil Co., of New York, Park Sq. Bldg., Boston, 1 story, concrete service station, Northern Artery and Greenville St., to Pitman & Brown, 11 Washington St., Salem. Est. $25,000-$30,000. Noted Feb. 25.

Mass., Newton Center (br. Boston)—Shell Eastern Petroleum Products, Inc., 141 Milk St., Boston, 1 story, concrete service station, Beacon and Walnut Sts., to Coleman Constr. Co., 86 Weybosset St., Providence, R. I.

N. Y., Long Island City—Queensboro Dairy Co., 35 12th Ave., Astoria, concrete, steel, on 75 x 200 ft. site, dairy plant, to Riger Building Corp., 145 West 41st St., New York. To exceed $150,000, with equipment work started. Noted Oct. 8.

Ill., Chicago—Phipps Industrial Land Trust Co., 39 South La Salle St., general contract 2 story, 120 x 160 ft., rein.con., brick factory, plain found., 1369 Branch St., to Austin Co., 510 North Dearborn St. Est. $100,000.

Mass., Barnstable—Puritan Ice Cream Co., 3895 Washington St., Roslindale, 2 story, brick, manufacturing and sales, plain found., to H. Mangariello, 83 West Selden St., Mattapan. Est. $50,000. Noted Feb. 4.

Mass., Worcester—Tatnuck Ice Co., Brookside Ave., 1 story, 65 x 105 ft., brick, steel ice plant, plain found., Mill St., to E. D. Ward Co., 82 Foster St. Est. $40,000.

Mo., St. Louis—Liggett & Myers Tobacco Co., 4241 Folsom Ave., 1 story, 108 x 157 ft. brick factory addition and altering 2 story, 30 x 100 x 200 ft. plant, Park Ave., to James Black Masonry & Contg. Co., 317 North 11th St.

Ohio—Ohio Edison Co., c/o A. L. Richman, Ohio Edison Bldg., Akron, two brick, steel, concrete electric substations, 1 at Fairlawn, near Akron and other at Medina, Summit and Medina Counties, to Allied Engineers, Inc., 162 Carroll St., Akron, engrs. and contractors. Est. $90,000.

S. C., Honea Path—Chiquola Mfg. Co., Honea Path, 1 story, 60 x 88 ft. plant, to Gallivan Constr. Co., Greenville.

Wis., Green Bay—Miller-Rasmussen Ice Co., 1105 North Bway., 1 story, 62 x 100 ft., rein.-con., brick plant, Bway., day labor. $40,000. Private plans.

PROJECTS POSTPONED

Ind., Huntington — Z. Dungan, mayor, announced postponement of sewage disposal plant addition. $70,000. No appropriation for employment of engineer to supervise construction. Noted June 19.

Ind., Brazil—Bd. Comrs. Clay Co. postponed constructing J. V. McCulloch Ditch because of adverse report of drainage commissioners. $30,000. Noted Mar. 19.

Mass., Falmouth—Marine Lodge of Free & Accepted Masons, Woods Hole, 3 story, basement, 60 x 100 ft., brick masonic temple and store, Main St. $150,000. J. S. Hutchinson, 10 Norwell St., Dedham, archt. Project held up indefinitely. Noted Dec. 3.

N. J., Plainfield — Owner, c/o C. C. Bell, archt., 8 South Ave., will not build 1 story, basement baking plant. $40,000. Project denied by Zoning Bd. Noted Jan. 7.

N. J., Rutherford—Bd. Educ., 54 Eliot Pl., will not reconstruct Park Junior High School, 3 story, basement, Park Ave. $150,000. Project abandoned. Noted Feb. 25.

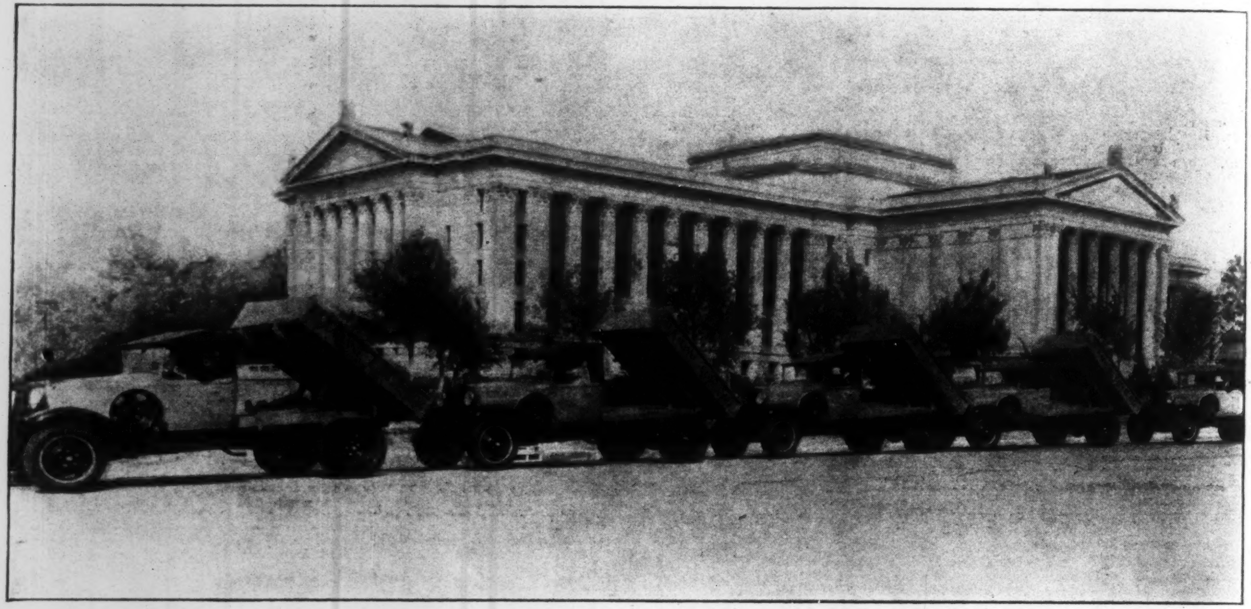
N. Y., New York—Bing & Bing, 119 West 40th St., will build by separate contracts, maturity spring 1933, 40 story hotel, Central Park West and 106th St. $2,000,000. E. Roth, 18 East 48th St., archt. Noted May 28.

N. Y., New York—Gruenstein & Mayer, 175 Lexington Ave., 6 story apartment or apartment and stores, 234 East 23rd St. $150,000. Owner will not proceed in letting general and separate contracts until spring, 1933. Noted June 4.

Wis., Green Bay—City postponed interceptor and sewage disposal plant. $750,000. Legality of Green Bay Sanitary Dist. being fought in court. Alvord, Burdick & Howson, 20 North Wacker Dr., Chicago, Ill., engrs. Noted Feb. 4.

See proposal advertising on page 87

THESE FORD TRUCKS
move earth
AT A LOWER COST PER YARD



Fleet of Ford dump trucks operated by the Kadane Construction Company

Ford trucks are making a vital contribution to the profits in many construction operations by reducing hauling costs. Definite proof of this is covered in a letter written by the Kadane Construction Company, Frederick, Oklahoma: "The trucks are undergoing about the most severe test possible. We are at the present time constructing a portion of the new Fort Worth & Denver Railway line, being built from Childress to Pampa, Texas. Incidentally, the section that we are building is practically all loose sand. Briefly, the trucks are loaded by a steam shovel, a load consisting of two one-yard dippers. The haul from the cut to the embankment covers a distance from 1500 feet to 3500 feet, and the embankment ranges from 4 feet to 30 feet high. The loaded trucks back up on the runway for about 300 to 500 feet and dump the load.

"While we are pioneers in the use of trucks for moving dirt, after years of experience in the construction of roads and highways we find that we are now moving earth with these trucks at a much lower cost per yard than any other method that we have experimented with."

Apply Ford economy to your own operations. Your Ford dealer will be glad to work out your hauling problems with you. You will find a Ford dealer near you.

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CONSTRUCTION NEWS

SECTION OF ENGINEERING NEWS-RECORD—MARCH 10, 1932

WATERWORKS

PROPOSED WORK

Neb., Plainview—Bids in April, elevated tank or pressure tank. H. L. Cory, 1034 Redick Tower, Omaha, engr.

N. Y., Barneveld—City plans gravity water system. $40,000. G. A. Jepson, village pres.

New York—Dpt. Water Supply, Gas & Electricity, Municipal Bldg., New York, submitted for approval to State Water Power and Control Comn., Albany plans for emergency water supply to add 10% to present supply, pending development Delaware Watershed system to consist of deep wells in Kings, Queens and Nassau Counties, total capacity 109,000,000 g.p.d. $5,000,000. $1,900,000 available now. Property acquired except small portion. Ridgewood job first project. For details address Construction News, 330 West 42nd St., New York.

Man., St. Vital—City. H. G. Wyatt, reeve, water main from city of Winnipeg aqueduct, also pumping station. $63,000. C. G. Miller, St. Vital, engr.

Ont., Dundas—Town Council considering necessity of obtaining fresh water supply. J. S. Fry, town clk.

Ont., Stirling—D. H. Fleming, 125 Ranleigh Ave., Toronto, preparing plans waterworks for Village.

Que., Masson—City Council bids in March, waterworks. $5,000.

BIDS ASKED

Ala., Tuscaloosa—Mar. 22 by City improving waterworks, incl. six 500,000 g.p.d. filter and sedimentation basins, installing machinery at Riverview waterworks pumping station. $750,000. W. H. Nicol, Tuscaloosa, city engr. Noted Mar. 3.

Calif., Los Angeles—Mar. 21, by Bd. Supervs. Los Angeles Flood Control Dist., M. B. Beatty, clk., 202 North Bway., San Gabriel Dam 2, readvertised on identical specifications as previous bids. Former contract rescinded. E. C. Eaton, 202 North Bway., ch. engr. Noted Feb. 25.

Ill., Wilmette—April 5, by Village covering filter plant 6 m.g.p.d. nominal capacity, low and high lift pumping station, 3,000 ft. 30 in. lake intake, clear water reservoir, superstructure, accessories. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, engrs.; adv. E. N.-R. Mar. 10.

Mass., Boston—Mar. 17, by Metropolitan Dist. Comn., 20 Somerset St., two rectangular, flange and spigot frame sluice gates with non-rising stems and geared ballbearing floor stands at Chestnut Hill Pumping Station 1, for Commonwealth of Massachusetts.

Pa., Bedford—Bedford Springs Hotel Co., taking bids sprinkling sysem, 30 x 40 x 12 ft. concrete reservoir, 750 ft. trench. Private plans.

Pa., Fracksville—See "Dams."

Pa., Meadville—Mar. 22, by City, H. Ellsworth, supt. Water & Light Dpt., one 500 g.p.m. centrifugal pump and electric motor.

Tenn., Memphis—City Council, taking bids new type gravel wall type of deep well for installation in Sheahan Pumping Station. Noted Sept. 3.

Tex. Muenster—Mar. 16 by City, c/o B. H. Hillman, mayor, waterworks improvements. Ward & Montgomery, Wichita Falls, engr. Noted Nov. 26.

Wis., Verona—Mar. 18, by Village, waterworks system, inrl. 14 in. x 750 ft. well, 16,000 ft. 6 and 8 in. mains, valves, hydrants, reservoir, pumping equipment. $35,000. W. G. Kirchoffer, 22 North Carroll St.; Madison engr. Noted Feb. 25.

Wis., Milwaukee—Mar. 18, by Central Bd. Purchases, eight hundred fifty-five 3- to 16-in. gate valves, six 8 in. topping valves, equipment for 1 diamond core drilling machine. J. W. Nicholson, purch. agt.

CONTRACTS AWARDED

Ariz., Phoenix—City Council, waterworks for West Encanto addition, to O. F. Fisher, 516 South 7th St., $8,000. Est. $10,000. Noted Mar. 3.

Calif., Signal Hill—City Council, furnishing 12,271 ft. 18 in., 12 gage steel pipe, to Los Angeles Mfg. Co., 2500 East 23rd St., Los Angeles, $12,639; laying 12,271 ft. 18 in. steel pipe, driven joints, to G. R. Shepard, 1154 Mullen Ave., Los Angeles, $3,436; furnishing, laying 17,572 ft. 20 in. mono cast, bell and spigot pipe, to L. R. Weber, 8442 California Ave., South Gate, $36,901. Grand total $52,976. Noted Jan. 21.

Colo., Salida—City Council, auxiliary waterworks, to Layne-Western Co., 507 Mutual Bldg., Kansas City, Mo., $3,745.

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Conn., New Britain—Water Comn., 1,500 ft. 6 in. c.i. distribution mains in 2 streets. $3,000. Owner builds. J. W. Holden, New Britain, ch. engr.

Kan., Hutchinson—United Power & Light Corp., J. E. Beyer, Jr., div. supt., preliminary plans constructing 6 in. watermains and hydrants in Careyville Addition, incl. Carey Blvd., G Ave., William, Liberty, D and Elm Sts., Work will probably be done by company forces. Private plans. Noted Mar. 3.

Ill., Morris—City Council plans pump house and well, pumping equipment. Contract for test well awarded to L. N. Central Co., 1421 South Circle Ave., Forest Park. Est. $54,000. Maturity about May 1.

Minn., Sleepy Eye—Village, A. J. Thomas, recorder, drilling well for water supply, to McCarthy Well Co., 670 Eustis St., St. Paul, $3,969.

Miss., Greenville—City, drilling, constructing, installing 500 ft. well, electrical driven turbine pump, 1,750 g.p.m. capacity, to Layne-Central Co., Chelsea Ave., Memphis, Tenn., $15,900.

Neb., Scotia—E. L. Kokes, clk., one 80 ft. gravel treated well with concrete or iron casing and screen, to Layne Western Co., Interstate Bldg., Kansas City, Mo. Noted Jan. 7.

Tex., Beaumont—City, c/o P. Millard, 1 and 2 story, 50 x 115 ft. brick, tile waterworks warehouse to McDaniel Bros., P. O. Box 26, $19,250.

Ont., St. Thomas—City supplying, installing 30 hp. motor driven centrifugal pumping unit, 2½ m.g.p.d. capacity, for city waterworks, to Marland Eng. Co., Montreal, Que.

SEWERS

PROPOSED WORK

Ill., Geneva—City, equipment for plant, sludge treatment beds, necessary appurtenances, also handles sewage for girls' home. State and Kane Co. aid allowed. $110,000. **Maturity indefinite.** Wells Eng. Co., 73 South La Salle St., Aurora, engrs.

Ill., Lake Forest — City completed plans, awaiting court hearing constructing brick, concrete pump house, wet well, rein.-con. motor room, two 500 g.p.m. vertical dry pit centrifugal pumps. $25,000. N. Campbell, City Hall, engr. Indefinite when bids will be received.

Ill., Lake Zurich — City completed plans 1 story, brick, concrete sewage pumping station, wet well, pumping equipment, accessories. J. Anderson, 228 East Deerpath Rd., Lake Forest, engr. Awaiting court confirmation, indefinite when will mature for bids.

Kan., Kansas City—Storm sewer extensions in Dist. 17. To exceed $25,000. C. E. Peterson, Kansas City, engr.

Kan., Newton — Preliminary plans sewers. $50,000.

Mass., Medford—City, Dpt. P. Wks., additional sewers. $91,500 appropriated.

Neb., Aurora—Preliminary plans sewer lines in 16th, 15th, 14th, G and H Sts. Henningson Eng. Co., 326 Union State Bank Bldg., Omaha, engrs.

Neb., Omaha—Bids in July, 15 in. to 6 ft. storm sewer from 22nd and Spencer Sts. North to vicinity 19th and Manderson Sts. $40,000. H. Beal, City Hall, engr.

See proposal advertising on page 70

Neb., Trenton — Preliminary plans sanitary sewerage system incl. main, lateral and outlet sewers, disposal plant in Sanitary Sewer Dist. 1. $35,619.

Wis., Cedar Grove — Village 12,000 lin.ft. sewers and 15,000 ft. watermains, concrete reservoir, pumps and tank, 1 deep well turbine pump, two pump motors, 1 auxiliary pump, 200 gal. gas storage tank, automatic control. McMahon Eng. Co., Menasha, engrs. Noted Oct. 22.

BIDS ASKED

Calif., Los Angeles—Mar. 16, by Los Angeles Bd. P. Wks., Sect. 34-C North Outfall Sewer from Burbank Blvd. and Kester Ave. to Oxnard St. and Hayvenhurst Ave., Type 1, 13,476 ft. vitr. sanitary sewers, incl. structures, reinforcement, if required; Type 2, 13,476 ft. centrifugal concrete sanitary sewer, structures. $243,000. J. J. Jessup, City Hall, engr.

Colo., Denver—Mar. 16, by Dpt. Impvts. & Parks, 12 mi. main and sub-main sewers, manholes, for storm drainage in Park Hill Storm Sewer Dist. $1,324,177. A. K. Vickery, City Hall, engr. Noted Oct. 22.

Pa., Harrisburg—Mar. 16, by H. A. Sherk, div. dir., Streets & Public Impvts., City Hall, 8 in. terra cotta sewer in 28th St. from Greenwood to 29th Sts., 28th St. from Duke to 29th Sts., Melrose St. from Derry to Brookwood Sts., Graham St. from Hoffman to Graham Sts. and 18 in. terra cotta sewer in Susquehanna St. from Schuylkill to Green Sts.

Pa., Hatboro — Mar. 14, by Boro, sanitary sewerage system (Contr. 2). $45,000. W. T. Muldrew, Jenkintown, engr.

Wis., Verona—Mar. 18, by Village, sewerage system and sewage disposal plant, incl. 16,000 ft. 8 and 10 in. sewers, manholes. $30,000. W. G. Kirchoffer, 22 North Varroll St., Madison, engr.

B. C., Richmond—See "Contracts Awarded."

Man., The Pas—See "Contracts Awarded."

CONTRACTS AWARDED

Md., Baltimore—Bd. Awards, sanitary sewers and storm drains, Storm Water Contr. 171, to P. E. Rawlings & Son, 240 Aisquith St., $18,625. Noted Feb. 4.

Utah, Salt Lake City—City Comn., laying 23,800 ft. 24- to 45-in. concrete pipe in East Side Unit Storm Sewer and 10,300 lin.ft. 60- to 75-in. square monolithic box section in West Side Sewer Unit Storm Sewer, to Ryberg Bros., Interurban Depot, $117,959 and $117,871 respectively, est. $130,000 and $125,000 respectively. Noted Feb. 18.

Wis., Milwaukee—Milwaukee Sewage Comn., 2 sludge refuse burning units, to Morse, Boulger Destructor Co., 205 East 42nd St., New York. Noted Feb. 16, under "Contracts Awarded."

B. C., Richmond — City Council, supplying 13,250 ft. 12 in. lap-welded steel pipe of British manufacture, to Evans, Boleman & Evans Ltd., foot of Columbia Ave., Vancouver, $24,366. Owner will install same by day labor.

Man., The Pas—City, constructing sewers, day labor. $45,000. G. A. Williams, The Pas, supt. Utilities.

BRIDGES

PROPOSED WORK

N. D., Garrison — State Hy. Dpt., Bismarck, steel, concrete bridge over Missouri River, 7 mi. from here. To exceed $25,000. H. C. Frahm, Bismarck, secy. Authorized by Federal Govt.

Pa., Homestead—Bd. Comrs. Allegheny Co., Pittsburgh, R. G. Woodside, controller, bids early in summer Bridge 12 over Monongahela River. $3,000,000. V. R. Covell, Co. Of. Bldg., engr. Noted Nov. 12.

Pa., Pittsburgh—City, C. M. Reppert, engr., City-County Bldg., and Allegheny Co., A. E. Griffith, engr., County Bldg., improving Mt. Washington Blvd., incl. concrete road and viaduct from Liberty Tunnels to new South 10th Street Bridge. $600,000.

Tex., Brady—McCulloch Co. rein.-con. vehicular bridge over San Saba River, on Hy. 9, $60,000. C. L. Gault, Brady, co. judge.

BIDS ASKED

California—Mar. 16, by C. H. Purcell, state hy. engr., Sacramento, rein.-con. girder bridge across Stevens Creek 2 mi. north Mountain View, Santa Clara Co.; 55 ft. plate girder and eleven 30 ft. rein.-con. girder span bridge across Anaheim Bay, near Seal Beach, Orange Co., for State Hy. Dpt., Sacramento.

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Bridges (Continued)

Indiana—Mar. 15, by J. J. Brown dir. State Hy. Comn., Indianapolis, bridges in Bartholomew, Clay, Fulton, Lawrence, Martin, Parke, Porter, Pulaski, Putnam and Wayne Counties. W. J. Titus, ch. engr.

Iowa—Mar. 15, by State Hy. Comn., Ames, one 36 x 24 ft. I-beam bridge, one three 40 x 24 ft. spans I-beam bridge, 40 culverts, extensions, Rd. 70, each of Macksburg, Federal Aid B—339, Madison Co.; one 110 x 20 ft. high truss with two 40 x 20 ft. I-beam approach spans, one three 40 x 20 ft. span I-beam bridge, one 130 x 20 ft. span high truss with three 40 x 20 ft. I-beam approach spans 54 culverts, extensions, Primary Rd. out of Truro, Federal Aid B—345, Madison Co.

Maine — Mar. 15, by State Hy. Comn., Augusta, Marston Bridge over Messalonskee Stream, incl. 430 cu.yd. concrete, 57,000 lb. structural steel, Watersville and Oakland—Bruce Bridge over Bartlett Stream, 275 cu.yd. concrete, Hollis and Dayton—Sucker Mill Bridge over Sucker Mill Pond, 218 cu.yd. concrete, Liberty—Welchville Bridge over Little Androscoggin River, 702 cu.yd. concrete, Oxford—Higgins Bridge over North Branch Little River, 173 cu.yd. concrete, Gorham—Davis Mill Bridge over Little River, 255 cu.yd. concrete, Gorham.

Maryland—Mar. 15, State Roads Comn., Baltimore, bridge tenders house on south side of bridge over Bohemia River, Contr. Ce—108-2-27, Cecil Co. G. C. Uhl, chn.; adv. E. N.-R. Mar. 10.

Mass., Newbury—Mar. 15 by Comrs. Essex Co., Court House, Salem, reconstruction and repairing, incl. bituminous macadam paving concrete Plum Island Bridge. $25,000. Noted Mar. 26, 1931.

Neb., Nebraska City — See "Contracts Awarded."

New York—Mar. 30, by Dpt. P. Wks., F. S. Greene, supt., State Office Bldg., Albany, approaches and miscellaneous structures, Contr. 3 and steel superstructure Contr. 4, for Troy-Menands Bridge, Albany and Rensselaer Counties, $326,399 and $1,439,050 respectively, adv. E.N.-R. Mar. 10.

O., Cincinnati—Mar. 16, by Cincinnati Union Terminal Co., H. M. Waite, ch. engr., Temple Bar Bldg., substructure southwest elevated connection to passenger terminal tracks between 6th St. and Southern Ry. bridge.

Wis., De Pere—Mar. 15, by State Hy. Comn., Capitol, Madison, 1,900 ft. steel, concrete bridge, 30 ft. concrete roadway, concrete walks over Fox River. $500,000. D. F. Cubertson, Green Bay, co. engr.

CONTRACTS AWARDED

Illinois—State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, rein.-con., steel bridge over Des Plaines River and railroad yards, near Justice, Cook Co., incl. 8,177,100 lb. structural steel, to McClintic-Marshall Corp., 38 South Dearborn St., Chicago, $286,328.

Michigan—A. L. Burridge, div. engr., Cadillac, F.Br. 2 of 20-2-4 Contrs. 2 and 3, 60 ft. span, steel deck girder, 2 semi-gravity, rein.-con. abutments, 30 ft. roadway, two 2½ ft. sidewalks, rein.-con. floor and wearing service, Crawford Co., for State Hy. Comn., Lansing, Contr. 2, to Lackawanna Steel Constr. Corp., Walden Ave., Buffalo, N. Y., $1,818; Contr. 3, to J. Leach, Jr., Saginaw, $11,521. Noted Feb. 4.

Neb., David—Butler Co., steel, wooden, concrete bridges and concrete work to be done by county during 1932, to David City Concrete Co., David City.

Neb., Nebraska City—Otoe Co., A. H. Barstler, clk., wooden, steel, concrete bridge for 1932, own forces. Former bids rejected.

O., Niles—Bd. Comrs. Trumbull Co. (Warren), 55 ft. and 70 ft. span, 1,200 ft. steel and rein.-con. bridge, South Main St., to E. H. Latham Co., 447 Neilson St., Columbus, $278,691. Noted Jan. 14.

Oklahoma—State Hy. Dpt., Oklahoma City, 1 span 100 ft. steel truss bridge on concrete piers at Walters, and 9 span 128 ft. rein.-con. bridge at Temple, both Cotton Co., to Roberts & Fisher, Norman, $18,021 and $42,230 respectively, est. $25,000 and $50,000 respectively. Noted Feb. 4.

Oregon—State Hy. Comn., Salem, 3 bridges over Malheur River, Malheur Co., to Lillebro, Reedsport, $42,208.

Texas—G. Gilchrist, state hy. engr., Austin, steel, concrete bridge, Madison Co., and 4 steel, concrete bridges, Delta Co., to Geo. W. Condon Co., 403 Magnolia Bldg., Dallas, $23,218 and $25,557 respectively est. $25,000 and $30,000, respectively—steel, concrete I-beam and deck girder bridge, Crockett Co., to Purvis & Bertram, 112½ West 9th St., Fort Worth, $40,862 est. $50,000—steel, concrete bridge Hy. 27 four 52 ft. steel I-beam span, steel, concrete bridge, Hy. 99, both Crockett and Pecos Counties, to M. H. Ryland, Uvalde, $68 543 and $15,867, respectively est. $80,000 and $25,000 respectively—6 span concrete deck girder bridge, Presidio Co., to D. H. Buchanan Constr. Co., Temple, $22,888 est. $30,000—2 rein.-con. bridges, Tom Green Co., to J. B. Johnson Constr. Co., Waco, $40,690 est. $40,000. Grand total $237 625. Noted Feb. 18 and 25.

Tex., San Benito—San Benito Bridge Co., c/o J. M. Whitelow, Dallas, 420 ft. steel, rein.-con. suspension type bridge over Rio Grande River, near here, to Dodds & Wedegartner, 400 North Travis St., Dallas. Noted June 25.

Wash., Pend Oreille—Pend Oreille Co., bridge over Oreille River, to Colonial Building Co., Hutton Bldg., Spokane, $63,868. Est. $75,000.

STREETS AND ROADS

BIDS ASKED

California — Mar. 16, by State Hy. Comn., Sacramento, grading, asphaltic concrete surfacing 2.4 mi. road between Santa Ynez Canyon and Santa Monica, Los Angeles Co. C. H. Purcell, hy. engr.

Ind., Evansville—Mar. 17, by E. D. Koenemann, aud. Vanderburgh Co., grading, rock and gravel surfacing Orchard Rd. $30,620.

Iowa—Mar. 15, by State Hy. Comn., Ames, grading, paving 101,601 sq.yd. U. S. Rd. 61, through Wapello, Federal Aid Project 299-A Louisa Co.—grading 11.699 mi. Primary Rd. out of Truro, Federal Aid Project 345-AB—8.098 mi. Primary Rd. 70 out of Macksburg, Federal Aid Project 339, both Madison Co.

Kansas—Mar. 18, by State Hy. Comn., Marysville—sand gravel surfacing 10.048 mi. K-31, U. S. Rd. 50-N, Kansas Project 1182, 1183 and 1184, Osage Co. W. V. Buck, Topeka, hy. engr.

Kansas—Mar. 18, by State Hy. Comn., at Marysville, regraveling 39.75 mi. K4-K24-U. S. 73-U. S. 36, in Jefferson, Jackson and Doniphan Counties—84.7 mi. U. S. 77, K74, K20, D50, D10, K11, K30, K4 in Marshall, Atchison, Jefferson, Riley and Doniphan Counties—regraveling, grading, culverts, 53.502 mi. U. S. 50N, K11, K78, K9, U. S. 73W, Osage, Lyon, Marshall and Atchison Counties. W. V. Bush, Topeka, state hy. engr.

Maine—Mar. 15, by State Hy. Comn., State House, Augusta, concrete paving 3.67 mi. Project 110-H, Newport and Plymouth—1.27 mi. Project 101-D, Kennebunk—bituminous macadam paving 3.75 mi. Project 80-D, Oxford—7.21 mi. Project 80-E, Poland—5.91 mi. Project 92-H, Presque Isle—gravel surfacing, drainage 8.21 mi. Project 132-B, Baileyville, Baring and Calais.

Maryland — Mar. 15, by State Roads Comn., Baltimore, G. C. Uhl, chn., concrete shoulder, concrete curbing, guttering 1.54 mi. Contr. BC-113-74, Baltimore City—concrete paving 1.7 mi. Contr. G-67-62—2.43 mi. Contr. G-73-64, both Garrett Co.; adv. E. N.-R. Mar. 10.

Michigan—Mar. 16, by H. G. Oakes, div. engr., Plymouth, grading, drainage structures 2.82 mi. MO-63-39C-1, Oakland Co., for State Hy. Comn., Lansing.

Mississippi — Mar. 17, by State Hy. Comn., Jackson, plain and rein.-con., sheet asphalt, rock asphalt, asphaltic concrete on concrete, asphaltic concrete surface course on concrete and gravel sub-base surfacing, 23,371 sq.yd. Meridian-Livingston (Ala.) Rd., Federal Aid Project 117-Reopened, Lauderdale Co. C. M. Williamson, dir.

Mo., St. Louis—Mar. 29, by Bd. P. Serv., City Hall, grading between building lines in Jasper Park, Lindenwood Pl., McDonald and Beck Aves., $39,320; grading, concrete paving alley in City Block 3275, $2,700. W. W. Horner, city engr.

N. Y., Long Beach—Mar. 14, by Supervs. Nassau Co., Mineola, rein.-con. and warrenite bithulithic paving 5,400 ft. Park Ave. from Long Beach Blvd. to Maple Blvd. $45,729.

N. Y., Utica—City, bids in May, widening, resurfacing 5,000 ft. existing pavement from intersection Herkimer Rd. and North Genesee St. to east end old trolley line, 34 ft. $80,000. J. B. Shaw, city engr.

Pa., Pittsburgh—Bd. Comrs. Allegheny Co. soon takes bids concrete paving Natrona Heights Rd., Harrison Twp. $387,000. A. E. Griffith, Co. Of. Bldg., engr.

West Virginia — Mar. 15, by State Roads Comn., grading, drainage structures crushed slag surfacing 0.25 mi. Project 180-B Marion Co.; grading, gravel surfacing 0.15 mi. approaches to Guano Creek culvert, Project 2163-A, Putnam Co. G. E. White, secy.

CONTRACTS AWARDED

California — C. H. Purcell, engr. State Hy. Comn., Sacramento, oil treated crushed gravel borders 3 ft. wide on each side 10.1 mi. road between El Centro and Calexico, Imperial Co., to R. E. Hazard Constr. Co., 2548 Kettner Ave., San Diego, $33,687—grading, untreated crushed gravel or stone surfacing 0.4 mi. road from point near Beaver Creek to point 3.5 mi. west of Gottville, Siskiyou Co., 24 ft., to M. A. Purdy, 15 Spear St., San Francisco, $14,437—2 concrete abutments with wing walls, 20 ft. roadway, under Southern Pacific R.R. near Towle, Placer Co., to P. F. Bender, 1012 De Paso Blvd., Sacramento, $16,380. Grand total $64,504. Noted Jan. 28 and Feb. 11.

Calif., Santa Monica—Bd. Supervs. Los Angeles Co., Los Angeles, allocated $40,000 towards widening, improving California St. incline to ocean. Work will be done by Santa Monica Eng. Dpt. under supervision H. B. Carter, city engr., by force account.

Delaware—State Hy. Dpt., Dover, improving 3.519 mi. Willow Grove-Woodside Rd., Contr. 225, to I. B. A. Hine & Co., Saugatais, N. Y., $49,239—1,100 ft. East Lockerman St., Dover, Contr. 227, to J. Cicone, Magnolia, $17,256—2,000 ft. 7th St., New Castle, Contr. 241, to D. E. O'Connell & Sons, Ridley Park, Pa., $36,690—0.47 mi. Jimtown Crossing, Clayton School, Contr. 242, to E. R. Mixner, Ocean City, N. J., $14,321—6.7 mi. Sandy Fork-Bryans Store Rd., Contr. 244, to Highway Eng. & Constr. Co., Shelbyville, $4,445—2,350 ft. 4 ft. sidewalks, Rehoboth, Contr. 243, to Hickman & Short, Bethany Beach, $2,047—3,000 ft. Philadelphia Park and Marsh Rd. Sidewalk, Contr. 245, to A. Petrillo & Co., Wilmington, $3,439—1,700 ft. Christiana Sidewalk, Contr. 246, to Andrew Mitchell & Sons, New Castle, $1,530—2,200 ft. Centerville Sidewalk, Contr. 247, to A. Vantresca & Sons, Wilmington, $2,520—150 ft. Slaughter Beach Groin, Contr. X, to G. E. Shockley, Rehoboth, $1,020. Grand total $132,507. Noted Jan. 21.

Ill., Geneva—City and State, grading, curbing, guttering, concrete paving 2,957 sq.yd. East State St., to McCarthy Impvt. Co., Kahl Bldg., Davenport, Ia., $32,299.

Ind., Jeffersonville — Clark Co., constructing Walter Schroeder Rd., Wood and Carr Twps., to Graves Bros. Co. of Clark County, $58,878. $75,000 bonds voted for same. Noted Feb. 4.

Iowa—State Hy. Comn., Ames, to Koss Constr. Co., 2818 5th Ave., Des Moines, grading, drainage structures, paving 9.428 mi. Rd. 3, F-346, Lee Co. $117,383; 4.561 mi. Rd. 2, F17 $71,106; 3.874 mi. Rd. 2, F-75 $53,384; 3.331 mi. Rd. 2, F-336 $42,169, all Marion Co.—to Booth & Olson, Inc., Grain Exch. Bldg., Sioux City, 1.694 mi. Rd. 14, F-237, Wayne Co. $28,236—to H. C. Nelson, Fremont, Neb., grading, drainage structures 8.162 mi. Rd. 14, F-63-E, Lucas Co. $38,573—to H. Snater, Ackley, 5.131 mi. Rd. 72, F-343, Wright Co. $23,018. Grand total $373,869. Noted Feb. 25.

Kansas—State Hy. Comn., Court House, Hays, **(P. means Project and F.A.P. Federal Aid Project)**, grading, culverts 7.444 mi. P. 1-15, F.A.P. 386-C Ellis Co., to H. J. Hall Constr. Co., Manhattan, $48,997—0.292 mi. P. 83-22, F.A.P. 343-D, Norton Co., to Manhattan Constr. Co., Manhattan, $8,882—13.169 mi. P. 8-15, F.A.P. 389-C Russell Co., to G. W. Condon Co., 223 Grain Exch. Bldg., Omaha, Neb., $44,133—0.16 mi. P. 1-14-GA 369-A, Ellis Co., to Schlichter Bridge Co., Clay Center, $392. Grand total $102,404.

Maine—State Hy. Comn., Augusta, gravel surfacing 3.14 mi. hy. Porter to R. G. Watkins, 47 Main St., Amesbury, Mass., $25,161—concrete paving 5.93 mi. Project 110-G, Carmel and Hermon, to M. I. Rogers, Bangor, $113,960—concrete paving 4.98 mi. Project 140-A, Clinton, to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $101,146—8.66 mi. Project 135-B, Gorman and Standish and 7.12 mi. Projects 137-A and 140-B, Pittsfield, Detroit and Palmyra, to A. D. Bridges Sons, Inc., Hazardville, Conn., $210,490 and $134,972 respectively. Grand total $585,729. Noted Feb. 25.

Maryland — State Roads Comn., G. C. Uhl, chn., Baltimore, gravel surfacing 1.48 mi. Contr. Sm-87-84, St. Mary's Co., to Boatwright, Russell & Linton, Manassas, Va., $5,875. Noted Jan. 7.

Maryland—State Roads Comn., Baltimore, G. C. Uhl, chn., concrete paving 1.5 mi. Contr. C1-92-54 Carroll Co., to Thomas, Bennett & Hunter, Westminster, $25,029. Noted Feb. 4.

Maryland—State Roads Comn., Baltimore, G. Uhl, chn., sheet asphalt surfacing 0.24 mi. state hy. along Falls Rd. from Belvedere to Mattheldt Aves., Contr. BC-112-72 Baltimore City, to P. Flanigan & Sons, Harford Rd. and Baltimore & Ohio R.R., Baltimore, $27,002. Noted Feb. 25.

Md., Baltimore—Bd. Awards, improving 11,700 sq.yd. streets listed in Contr. 610, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $46,064. Noted Feb. 11.

Md., Baltimore—Bd. Awards, sheet asphalt paving 9,800 sq.yd. streets in Contr. 609, to National Paving & Contg. Co., Menlo Dr. and W. M. R.R., $36,314. Noted Feb. 4.

Michigan—A. L. Burridge, div. engr., Cadillac, grading, shaping, drainage structures, concrete paving 0.241 mi. MO24-24C-1, Emmet Co., for State Hy. Comn., Lansing, to Marsman & Taber, Grand Rapids, $14,792. Noted Feb. 4.

Michigan—J. T. Sharpensteen, div. engr., Escanaba, grading, drainage structures 5.268 mi. FO21-16C-1, Delta Co., and 1.189 mi. FO22-26C-2, Dickinson Co., for State Hy. Comn., Lansing, to Bacco Constr. Co., Iron Mountain, $34,242 and $11,426 respectviely. Noted Feb. 4.

Missouri — State Hy. Comn., Jefferson City, graveling 0.17 mi. Grant City Rd., and bridge over Middle Fork of Grand River, Worth Co., to Graham Bros., 6519 East 37th St., Kansas City, $2,378 and $20,010 respectively. Noted Jan. 28.

Mo., Independence — Jackson Co., grading, concrete paving 22,766 sq.yd. Ash Ave. and 81,558 sq.yd. Sugar Creek Rd., to Sandy Hites Constr. Co., City Bank Bldg., Kansas City, $43,835 and $158,829 respectviely—66 ft. rein.-con. bridge on Ash Ave. Rd. and two 198 ft. rein.-con. bridges on Sugar Creek Rd., to Carrothers & Crouch Constr. Co., 325 Businessmen's Assurance Bldg., Kansas City, $3,810 and $13,645 respectively. Grand total $220,119. Noted Feb. 18.

N. Y., New York—S. Levy, pres. Manhattan Boro, Municipal Bldg., granite block paving Mott St., to Leonard Paving Co., 233 Bway., $27,301. Noted Feb. 18.

Oklahoma—State Hy. Dpt., Oklahoma City, grading, drainage structures 9.396 mi. State Aid Project 793 A and B, 32 ft., to Merveldt & Lawson, El Reno, $35,076. Est. $50,000. Noted Jan. 7.

Oklahoma—State Hy. Dpt., Oklahoma City, grading, drainage structures 4.41 mi. State Hy. 24 west of Shattuck, 32 ft., Ellis Co., to Asplund Constr. Co., Enid, $16,486 est. $25,000; 4.91 mi. State Hy. 72 east of Sulphur, 32 ft., Murray Co., to Blackburn Constr. Co., Ardmore, $46,060 est. $50,000.

Texas—G. Gilchrist, state hy. engr., Austin, grading, drainage structures, concrete paving 12.976 mi. Van Zandt Co., to Union Paving Co.,

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Streets and Roads (Continued)

Broad and Stiles Sts., Phila., Pa., $244,401 est. $240,000—grading, drainage, structures, concrete paving, underpass drainage unit, 0.359 mi. Fort Bend Co., to Russ Mitchell, Inc., 710 Petroleum Bldg., Houston, $25,550 est. $30,000—grading, small drainage structures 11.473 mi. Presidio Co., to McCall Eng. Co., 307 Amicable Bldg., Waco, $24,358 est. $36,000—concrete paving 11.402 mi. Potter Co., to American Paving Co., Moulton, $183,745 est. $200,000—14.971 mi. Wharton Co., to Dexter Constr. Co., Hangar 10, Love Field, Dallas, $190,862 est. $220,000—7.751 mi. Van Zandt and Smith Counties, to Ross Constr. Co., 504 Republic Bank Bldg., Dallas, $113,459 est. $140,000—13.448 mi. Leon Co., to T. L. James & Co., Ruston, La., $223,788 est. $220,000—14.108 mi. Wheeler Co., to L. E. Whitham & Co., Shamrock, $217,482 est. $240,000—3.778 mi. Freestone Co. and 1 in. two course limestone rock asphalt wearing surface paving 13.622 mi. Karnes Co., to F. P. McElwrath Constr. Co., Corsicana, $56,238 and $33,685 respectively est. $56,000 and $25,000 respectively—11.365 mi. De Witt Co., to Uvalde Rock Asphalt Co., 1128 North Mesquite St., San Antonio, $30,535 est. $30,000—grading, caliche base course surfacing 9.17 mi. Potter Co. to McClure & Lenison, Abilene, $26,226 est. $30,000—iron ore top soil base course surfacing 11.504 mi. Anderson Co., to L. A. Murdock Constr. Co., Brownwood, $51,616 est. $46,000—caliche base course surfacing 16.612 mi. Randall Co., to Ernest Loyd Co., Birdville Rd., Fort Worth, $76,390 est. $52,000—crusher run broken stone base course surfacing 11.09 mi. Wise Co., to Union Constr. Co., Longview, $33,026 est. $40,000. Grand total $1,531,361. Noted Feb. 18 and 25.

Washington—S. J. Humes, dir. Hys., Olympia, paving 11.8 mi. Inland Empire Hy. from Umptanum to Hillside, Kittitas Co., to Midstate Contg. Co., Yakima, $312,819; 11.5 mi. same road from Ellinsburg to Umptanum, to Norris Bros., Burlington, $285,000. Noted Feb. 4.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

Mass., Revere — Commonwealth of Massachusetts, Dpt. P. Wks., breakwater past Roughlans Point to Winthrop line-protection of Short Beach, Beachmont Section. To exceed $15,000. A. W. Dean, c/o owner, engr.

BIDS ASKED

California—Mar. 23, by C. H. Purcell, engr. State Hy. Comn., Sacramento excavation work near Temascal Canyon 1 mi. northeast of Santa Monica, incl. 23 MF bm. Douglas fir timber, 776,000 lb. driving steel sheet piling, Los Angeles Co. State furnishes sheet piling.

Mass., Bourne—See "Piers and Wharves."

O., Hamilton—Apr. 12, at office Chief Engineer, Miami Conservancy Dist., Dayton, removing excess material from improved channel of Miami River; adv. E. N.-R. Mar. 10.

CONTRACTS AWARDED

Ark., Marked Tree — Bd. Comrs. D. D. 7. Poinsett Co., awarded contract on revised plans constructing floodway from lower end St. Francis Lake region near Oaka Donnick, southwardly along existing floodway to near lower end and southesterly to St. Francis Bay region near Poinsett-Cross county line, thence to St. Francis River at point 6 mi. west of Parkin, 9,300 ft. long with levees on both sides 15 mi. in length and 9 to 12 ft. high, seep ditches to parallel levees, incl. 3,000,000 cu.yd. earth work, to Vollmer & Sons, Inc., and Clarke Bros. Constr. Co., Blytheville, $300,000. Former contract rescinded. Noted Sept. 10.

Tex., Corpus Christi—Nueces Co. Navigation Dist. 1, constructing 4 steel sheet pile cribs in channel entrance of Corpus Christi harbor for protection of bascule bridge to Scrivner & Richardson, Aransas Pass, $21,950. Noted Feb. 4.

New Jersey—Bill sponsored by Bergen County (N. J.) Chamber of Commerce directing Port of New York Authority to take over Hackensack Meadows reclamation for industrial purposes, is now pending in New Jersey Senate. Total construction cost $25,000,000. For details address Construction News, 330 West 42nd St., New York.

Bond Elections

Coming Bond Elections

Waterworks—La Habra, Calif., $25,000.
Waterworks—Springer, N. M., Apr. 5, $60,000.
Sanitary Sewage Disposal Plant—Somerset, Pa., Apr. 26, $100,000.
Light and Power Plant—Sumner, Iowa, Mar. 24, $95,000.

Bonds Voted

Sanitary Sewers and Disposal Plant—Washington, Mo., W. B. Rollins & Co. Kansas City, Mo., engr. $30,000.
Power Plant—Murray, Utah, $35,000.

Bonds Defeated

High School—San Gabriel, Calif., $345,000.
School—Malverne, N. Y., $525,000.

FEDERAL GOVERNMENT

PROPOSED WORK

Calif., Alhambra—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Site selected.

Calif., Merced—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., soon takes bids 2 story, 84 x 130 ft. U. S. Post Office. $180,000. Noted Aug. 20.

Calif., Porterville—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by H. R. Lake, Pacific Southwest Bldg., Fresno, U. S. Post Office. Noted Nov. 19.

Florida—DREDGING—U. S. Eng., Montgomery, Ala., deepening channel between Choctawatchee Bay and West Bay (arm of St. Andrews Bay) as unit of Intracoastal Waterway, incl. 15,000,000 cu.yd. hydraulic dredgework. $1,770,000 plus $10,000 annual maintenance. R. A. Sharrer, Montgomery, Ala., dist. engr. H. P. Merrill, Fort Barrancas, civil engr.

Ill., Chicago—ELECTRICAL EQUIPMENT—U. S. Eng., electrical equipment for Dresden Island Lock and Brandon Road.

Mass., Taunton—DREDGING—U. S. Eng., bids latter part of month improving Channel V, Taunton River, 12 ft. deep at mean low water up to Wier Bridge.

Minn., Lake City—PIER—U. S. Eng., 615 Commerce Bldg., St. Paul, concrete breakwater pier in Mississippi River. $30,000.

N. Y., Glen Cove—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by Delano & Aldrich, 126 East 38th St., New York, U. S. Post Office. Noted Feb. 11.

N. C., Wadesboro — POST OFFICE — Treas. Dpt. sketches 2 story, U. S. Post Office, with accommodations for activities of departments of Fed. Govt., incl. Agriculture and Internal Revenue Agencies. Noted Dec. 24.

BIDS ASKED

Ariz., Phoenix—WALLS—Mar. 28, by Treas. Dpt. at office Sup. Archt., Wash., D. C., floating and sub-basement walls U. S. Post Office.

Calif., Sunnyvale—PIPING—Spec. 6761—Apr. 16, by Yards & Docks, Navy Dpt., Wash., D. C., high and medium pressure air and helium piping and accessories for repurification of helium at Naval Air Station.

D. C., Wash.—HEATING PLANT—Mar. 16 (extended date), by Treas. Dpt. at office Sup. Archt., Wash., D. C., boiler installation, incl. boilers, water walls, soot blowers, settings, casings stokers, forced and induced draft fans in Central Heating Plant, for Public Buildings. Noted Feb. 11.

Florida—DREDGING—Mar. 25, by U. S. Eng., Jacksonville, dredging 341,230 cu.yd. place measurement from Intracostal Waterway channel in Matanzas River, near Crescent Beach bridge, adv. E. N.-R. Mar. 10.

Ga., Marietta—REMODELING, etc.—Mar. 23, by Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office.

La., Monroe — CONDENSER — Mar. 16, by U. S. Eng., Vicksburg, Miss., one horizontal surface type condenser.

La., Shreveport—GYMNASIUM—Mar. 24, at office Con. Q.M., Barksdale Field, gymnasium at Barksdale field; adv. E. N.-R. Mar. 10.

Mass., Rutland—HOSPITAL—Apr. 5, by Vet. Bu., Arlington Bldg., Wash., D. C., administration and clinical unit, U. S. Veterans' Hospital, Rutland Heights. To exceed $150,000.

N. J., Newark—ELEVATOR PLANT—Mar. 25, by Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator plant in U. S. Post Office, Court House.

N. C., High Point—POST OFFICE—Mar. 25, by Con. Q. M., constructing (except elevator and dumbwaiter), U. S. Post Office. $400,000. Noted June 11.

N. C., Wilmington—SHORE PIPE, etc.—Mar. 14, by U. S. Eng., 308 Custom House, 12 ft. long overall by 30 in. inside diam. shore pipe, and 45° shore pipe elbows for Dredge Currituck, delivered f.o.b. Wilmington.

O., Dayton—WATER SOFTENING SYSTEM—Mar. 22, by Vet. Bu., Arlington Bldg., Wash., D. C., lime soda water softening system at U. S. Veterans' Home.

O., Fairfield—HANGARS, etc.—Mar. 18 (extended date), by Con. Q. M., Wright Field, hangars, oil reclamation building, administration buildings at Paterson Field. Noted Feb. 11.

Okla., Muskogee—HEATING—Mar. 22, by Vet. Bu., Arlington Bldg., Wash., D. C., heating for existing buildings with additions and alterations to steam and return lines, U. S. Veterans' Hospital.

Pa., Lewisburg — WATER and SEWERAGE SYSTEMS—Mar. 17, by Bureau Prisons, Dpt. Justice, Wash., D. C., water supply and sewerage systems in northeastern penitentiary, near here. $90,000.

Tenn., Chattanooga—POST OFFICE, etc.—Apr. 7, by Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing (except elevators and dumbwaiter) U. S. Post Office and Court House; adv. E. N.-R. Mar. 10. Noted Feb. 11.

Va., Deep Creek—WALLS—Mar. 14, by U. S. Eng., Norfolk, driving 2 steel sheet-pile walls and installing anchorage system for one wall of Deep Creek Lock.

Va., Great Bridge—MOORING PILES—Mar. 21, by U. S. Eng., Norfolk, driving 221 lin.ft. mooring piles, and furnishing, driving 136 ft. fender piles.

Vt., Fort Ethan Allen—THEATRE—See "Contracts Awarded."

Wyoming—ROAD—Mar. 22, by Pub. Rds., grading, crushed rock or crushed gravel surfacing 45,500 cu.yd. Wind River Hy. in Wind River Natl. Forest, Fremont Co. A. E. Palin, Denver, Colo., dist. engr.

Wis., Chute—DAM—Apr. 6, by U. S. Eng., Milwaukee, concrete dam and removing old timber dam on Fox River, here; adv. E. N.-R. Mar. 10. Noted Feb. 25.

Wis., Milwaukee—FIRE PUMP—Mar. 24, by Treas. Dpt. at office Sup. Archt., Wash., D. C., fire pump and water heater at U. S. Post Office, Court House and Custom House (old).

CONTRACTS AWARDED

Colo., Denver — TURBINES, etc. — Bureau Reclamation, Denver, turbines, turbine governors and governor pumps for Grand Valley Power Plant, Grand Valley Irrigation Project, to Pelton Water Wheel Co., 2929 19th St., San Francisco, Calif., $30,564; generators and exciters, to Electric Mchy. Mfg. Co., 1331 Northeast Tyler St., Minneapolis, Minn., $30,100; switchboard, to Standard Mechanical Equipment Co., to 2010 Richardson St., Dallas, Tex., $9,272. Grand total $69,936.

Del., Wilmington—DREDGING—U. S. Eng., 1,800 cu.yd. material from boat slip at A and Poplar Sts. on Christiana River, to Delaware Dredging Co., 139 South St., Phila., Pa., at $0.68 per cu.yd. Noted Feb. 18.

Fla., St. Petersburg—SEWAGE TREATMENT CONTROL HOUSE—Vet. Bu., Arlington Bldg., Wash., D. C., sewage treatment control house, to J. B. McCrary Co., 584 Bankhead Ave., Atlanta, Ga., $41,500; elevators, to Otis Elevator Co., 810 18th St. N. W., Wash., D. C., $12,296; refrigeration and ice making plant, to Penn Eng. Co., 1119 North Howard St., Phila., Pa., $14,900. Grand total $68,696.

Illinois—EARTHWORK—U. S. Eng., 428 Custom House, St. Louis, Mo., placing 1,355,000 cu.yd. earthwork in rebuilding and enlarging levee in Big Swan Drainage and Levee Dist., Scott Co., to Holland Constr. Co., 1435 Burnham Bldg., Chicago, at $0.088 per cu.yd. Noted Jan. 14.

Ill., Harvey—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., post office, incl. approaches, to Thorp-Rogoff Co., 306 South Wabash Ave., Chicago, $63,800 (360 days). Noted Feb. 4.

Maine—DREDGING—U. S. Eng., Custom House, Boston, Mass., dredging in Kennebunk River to Trimount Dredging Co., 10 State St., Boston, Mass., $26,164. Noted Feb. 18.

Md., Annapolis—TERRACES—Spec. 6778—Yards & Docks, Navy Dpt., Wash., D. C., improving terraces, to H. G. Seymour, Easton, $5,540. Noted Feb. 2.

Mo., Kansas City—PILES—U. S. Eng., 707 Postal Telegraph Bldg., 6,000 round wood piles to Lake Superior Piling Co., 221 North LaSalle St., Chicago, Ill., $26,211; 2 gas engines, to Red Wing Motor Co., Red Wing, Minn., at $637.

Mo., Kansas City—WIRE, etc.—U. S. Eng., 707 Postal Telegraph Bldg., 210,000 ft. ⅜ in. strand steel wire, to Sheffield Steel Corp., Sheffield Station, at $8.70 per 1,000 ft.; 210,000 ft. ⅜ in. strand steel wire f.o.b. Waverly, to Amer. Steel & Wire Co., 417 Grand Ave., at $8.87 per 1,000 ft.; 1,000 pcs. 1¼ in. 10 ft. length W.S. pipe, to Crane Co., 1532 Grand Ave., $12.28 per 100 ft.; one hundred 1¼ in. and twenty-five 1¼ in. wrought steel couplings, to Brown-Strauss Corp., 1446 Guinotte St., at $0.068 and $0.091 respectively; 3 lengths 22 ft. 6 in. galvanized spiral riveted pipe, 18 in. inside diam., to H. Channon, Kansas City, at $80 per section. 2% discount on all contracts, 10 days.

N. Y., Fort Jay—APARTMENT—Con. Q. M., 39 Whitehall St., officers' apartments, to Longacre Eng. & Constr. Co., 345 Madison Ave., New York, $143,950. Noted Feb. 4.

Ore., Portland — ADMINISTRATION BUILDING, etc. — Vet. Bu., Arlington Bldg., Wash., D. C., administration building and underground passage, to Dougan-Hammond Constr. Co., Studio Bldg., $71,840; resurfacing roads, to Jones, Reese & Courtner, 712 East 77th St., $8,976. Noted Jan. 28.

Vt., Fort Ethan Allen — THEATRE — Con. Q. M., moving picture theatre, day labor. Private plans.

W. Va., Huntington—ENGINES—U. S. Eng., 5 steam hoisting engines for Locks 14, 15, 16, 17 and 28, to Cullen-Friedstadt Co., 1300 South Kilbourne Ave., Chicago, Ill., Items (1) $433 (2) $433. Noted Jan. 21 Daily.

Wyo., Sheridan—HOSPITAL—Vet. Bu. Arlington Bldg., Wash., D. C., U. S. Veterans Hospital addition, to McDonald Eng. Co., 1 South LaSalle St., Chicago, Ill., $210,000; 1 electric elevator to Otis Elevator Co., 810 18th St., Wash., D. C., $4,928. Noted Jan. 28.

C. Z., Albrook Field—HANGARS, etc.—Con. Q. M., air corps double hangars, air corps machine shop and air corps warehouse, to J. W. Patience, 110 West 40th St., New York, N. Y., $175,300.

RAILWAYS

CONTRACTS AWARDED

Texas—Missouri Pacific Ry. Co., E. A. Hadley, St. Louis, Mo., chf. engr., laying 35 mi. new rails near Brownsville, on San Antonio, Uvalde & Gulf Ry. and on north end of International-Great Northern Ry. $400,000. Will lay partly by contract and day labor. Steel probably purchased. Noted Feb. 25.

GRADE CROSSINGS

PROPOSED WORK

Calif., Niles—Alameda Co. (Oakland) surveys rein.-con. underpass. $35,000. G. A. Posey, Oakland, co. surv.

N. Y., Claverack—Boston & Albany R. R. Co., G. A. Kirley, ch. engr., South Station, Boston, Mass., altering highway bridge for eliminating grade crossing over railroad, Columbia Co. To exceed $25,000. Hearings before Pub. Serv. Comn. to determine what changes will be made.

N. Y., Ellridge—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, eliminating grade crossing on North Main St. To exceed $25,000. General plan approved by Pub. Serv. Comn.

BIDS ASKED

Mass., Boston—Mar. 15, by Dpt. P. Wks., concrete footway under New York, New Haven & Hartford R.R. at Greenfield Rd., incl. considerable tunnel excav. $25,000. J. A. Rourke, comr.

Wisconsin—Mar. 15, by State Hy. and Unemployment Comns., Madison, grading 0.23 mi. Bell Grade Separation (approaches only) S.T. Hy. B and Chicago, Minneapolis and St. Paul R.R., S.A.P. 2031, Walworth Co.; 0.16 mi. Bay Shore Grade Separation (approaches), U. S. 141, and Canadian Northwestern Ry., S.A.P. 2035, Milwaukee Co.; constructing Quarry Overhead, S.T.H. 30, S.A.P. 2071, Waukesha Co.

CONTRACTS AWARDED

California—See "Contracts Awarded."

Wisconsin — State Hy. and Unemployment Comns., Madison, Roberts Overhead (approaches only), S.A.P. 6187, S.T. Hy. 65, St. Croix Co., to L. G. Arnold, Inc., Eau Claire, $18,116; Truesdell Overhead, S.A.P. 2845, U. S. 41, Kenosha Co., to Maher & Didier, 2502 75th St., Kenosha, $68,747. Noted Feb. 18.

DAMS

BIDS ASKED

• **Calif., San Diego**—Apr. 11, by City, constructing El Capitan Reservoir Dam, Spillway and Outlet Work, crest 197 ft. above streambed, dam 1,160 ft. long on top, about 1,240 ft. thick at bottom, top to be 20 ft. above spillway lip, foundation 25 ft. below streambed, 25 ft. horseshoe shaped concrete lined tunnel, about 1,150 ft. long, required for flood diversion during construction, will later be plugged and used as outlet tunnel, work to include 1,350,000 cu.yd. excav. and hydraulic placing in dam, 120,000 cu.yd. excav. and placing rolled embankment, 840,000 cu.yd. rock excav. and placing in dam, 61,100 cu.yd. concrete, all classes, 67,000 bbl. cement, 2,400,000 lb. reinforcing steel, 496,000 lb. structural steel, 25,000 cu.ft. grout, furnishing, installing outlet work. H. N. Savage, hydraulic engr., in charge Bureau of Water Development, 524 F St. Noted Sept. 17.

PIERS AND WHARVES

BIDS ASKED

Mass., Bourne—PIER—Mar. 22, by Dpt. P. Wks., Commonwealth of Massachusetts, Boston, 600 ft. landing pier, 75 ft. wide, series of pile dolphins and moorings, dredging 350,000 cu.yd. in berth and turning basin at westerly end of Cape Cod Canal, Buzzards Bay. A. W. Dean, c/o owner, engr. Noted Sept. 17.

GRAIN ELEVATORS

PROPOSED WORK

Ont., Windsor—GRAIN ELEVATOR—Fegles Constr. Co., general contractor, 711 Wesley Temple Bldg., Minneapolis, Minn., wants prices on various trades all materials for grain elevator. Noted Jan. 21, under "Contracts Awarded."

POWER AND LIGHTING

PROPOSED WORK

New York—Syracuse Lighting Co., 421 South Warren St., 15 mi. 20 in. gas line extension from Onondaga to Syracuse; also mixing plant for natural and artificial gas. Application for permit now pending before Pub. Serv. Comn.

Tex., Logansport—O. B. Siler, Logansport and Dallas, granted franchise natural gas distributing system. Private plans.

Man., Neepawa—Manitoba Power Comn., 146 Notre Dame Ave. E., Winnipeg, transmission line to connect town with provincial hydro system. $40,000. Negotiations are under way between representatives of Neepawa and Province of Manitoba. A. Trott, 146 Notre Dame Ave. E., Winnipeg, engr.

Man., Winnipeg—Wesley League, W. A. MacQuarrie, pres., 383 Spence St., installing eight towers 70 ft. high around Wesley Park, to support 76 mammoth light projectors for night sports. $20,000. Equipment will be furnished by General Electric Co., 265 Notre Dame Ave.

BIDS ASKED

California—See Contracts Awarded."

Mo., St. Louis—Mar. 29, by Bd. P. Serv., City Hall, gas transmission equipment and furnishing gas so transmitted for lighting various hys. in city for period of one year. $67,200.

N. Y., Albany—Mar. 31, by Superintendent P. Wks., c/o Commissioner Architecture, State Office Bldg., Albany, electric work for replacement of cable, electric wiring, electric lighting and equipment for East Section, Capitol Building: adv. E. N.-R. Mar. 10.

Wyoming—Midwest Refining Co., Casper, taking preliminary bids electric transmission line from Salt Creek to Casper.

CONTRACTS AWARDED

California—Pacific Gas & Electric Co., 245 Market St., San Francisco, 40 mi. natural gas pipe line extending through San Mateo Co. along Skyline Blvd. to connect at Milpitas with the coast and San Joaquin Valley Lines and Kettleman Hills Dist., day labor. $2,000,000.

Tex., Wellington—City awarded franchise to R. Perdue, Wellington, to build natural gas distributing system, booster plant, probably use 25,000 ft. c.i. pipe. $35,000. Noted Nov. 12.

PARKS AND SPORTS

PROPOSED WORK

Ill., Chicago—Lincoln Park Comn., W. Wright, pres., Clark and Center Sts., plans by B. H. Marshall, 612 Sheridan Rd., Willmette, and takes bids about Mar. 15, 2 story, 80 x 600 ft. brick, rein.-con. bath house, Outer Dr. $180,000. Smith & Brown, 307 North Michigan Ave., engrs.

Mass., East Marion — Kitansett Club, East Marion, preliminary sketches by Little & Russell, 20 Newbury St., Boston, field equipment house at Club Grounds. $25,000 or more.

Mass., Lynn—City Council additional improvements at municipal golf course. $30,000.

Mass., Newton — City, E. Herman, superv. Playgrounds, extension to Auburndale Playground. $25,000.

N. Y., Brooklyn—Dpt. Parks, W. R. Herrick, pres. Park Bd., Arsenal Bldg., Central Park, New York, 1,500 acre Marine Park, Rockaway Inlet, incl. 125,000 person capacity stadium, 18 hole golf course, zoo, open air theatre and music hall, 3 swimming pools, bath beach development, 2 mi. canal for boat racing, yacht basin with facilities for mooring small craft, 7 playgrounds, 30 baseball and football and 180 tennis courts, bowling green, comfort station, ferry slip, automobile drive, shops and service building, skating rink. Total $50,000,000. $8,000,000 spent to date for site and improvements, $1,400,000 appropriation for 1932 pending. C. D. Lay, 101 Park Ave., New York, landscape archt. Noted Oct. 29.

N. Y., North Beach—Dpt. Parks, W. R. Herrick, pres. Park Dpt., Arsenal Bldg., Central Park, New York, improving 2¾ acre site for park and playground, Queens Co. To exceed $25,000. Site purchased.

N. Y., Whitestone Landing—Dpt. Parks, W. R. Herrick, pres. Park Bd., Arsenal Bldg., Central Park, New York, park development, landscaping, beach and playgrounds, on Clear View Golf Club Property.

BIDS ASKED

Ark., Hot Springs—See "Contracts Awarded."

Mass., Boston—Mar. 17, by Park Dpt., altering and constructing concrete, timber bath house extension, L St., South Boston, $25,000 or more.

CONTRACTS AWARDED

Ark., Hot Springs—Fountain Lake Corp., improving summer resort, incl. remodelling present tavern and hotel, building 25 new modern equipped cottages, dressing rooms, sandwich shop, filling station, new artificial lake, sand beach, concrete swimming pool, day labor. $150,000. R. Lewellyn, Oaklawn Blvd., lessee of corporation. I. D. McDaniel, Citizens Bldg., archt.

N. J., Jersey City—Cortlandt Constr. Co., general contractor, 18 East 41st St., New York, steel piling for 1 story, tower, brick, steel, rein.-con. stadium, arena and exhibition building, Lincoln Hy., B'way. and Bole Ave., to I. B. Miller Co., 406 West 38th St., New York, for Metropolitan Stadium Corp., c/o general contractor. General contractor taking bids on structural steel. $5,225,000. Noted Feb. 25 under "Contracts Awarded."

N. Y., New York—Dpt. Parks, Park Bd., Arsenal Bldg. Central Park, developing 2 acres Claremont Park, to Marc Eidlitz & Son, 100 East 42nd St.; excavation to A. A. Johnson, 3rd and West Sts., Long Island City, est. $350,000.

Que., Montreal—City Executive Committee, pavilion at Lafontain Park, to J. O. Jalbert, Montreal, $117,216.

HEATING AND VENTILATING

BIDS ASKED

N. Y., Brooklyn—Mar. 30, by Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, heating, ventilating apparatus, kitchen wing, reception building, Brooklyn State Hospital.

CONTRACTS AWARDED

Pa., Norristown—State Commissioners, J. L. Hanna, secy., Harrisburg, heating and ventilating for 3½ story, basement, administration building, two 34 x 60 ft. wings, brick, plain found., at State Hospital, for State Dpt. Properties & Supplies, to V. N. Welamb Co., 105 North Watt St., Phila., $36,735; plumbing, to C. C. Kottcamp & Son, York, $32,253. Noted Feb. 25 under "Hospitals."

UNCLASSIFIED

PROPOSED WORK

N. Y., Brooklyn—RETAINING WALL—Dpt. Hospitals, Municipal Bldg., New York, plans by L. P. Ward, 205 East 42nd St., New York; bids in fall or later, contingent upon availability of funds, retaining wall and gate house at Kings County Hospital, Clarkson and East New York Aves. $100,000.

BIDS ASKED

New York—COUNTERBALANCES, etc.—Mar. 15, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, furnishing, installing counterbalances on sidewalks doors to underground rectifier stations; also locks for removable panels of ventilation gratings, Manhattan, Bronx, Brooklyn and Queens Boros.

N. Y., Ithaca—ELEVATOR—Mar. 24, by Commissioner Dpt. Education, Education Bldg., Albany, electric elevator Agricultural Economics Building and heating work and electrical work, service connections at New York State College of Home Economics and Agriculture, Cornell University; adv. E. N.-R. Mar. 10.

N. Y., New York—STATION FINISH—Mar. 15, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., constructing station finish 41st St. connecting passageway, for parts Rapid Transit Railroads.

N. Y., Wingdale—REFRIGERATION — Mar. 30, by Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, refrigeration work in kitchen and dining room building, Building 24, Harlem Valley State Hospital; adv. R. N.-R. Mar. 10.

Pa., Selinsgrove—FARM BUILDINGS—Mar. 23, by Dpt. Property & Supplies, Commonwealth of Pennsylvania, Harrisburg, general, electrical, heating and plumbing contracts for Farm Buildings, State Colony for Epileptics.

Tex., Odessa—POTASH MINING—Texas Potash Corp., Republic Bank Bldg., Dallas and Odessa, taking bids sinking 2,100 ft. shaft. Private plans.

W. Va., Charleston—CULVERTS—Mar. 15, by Kanawha County Court, 5 concrete box culverts and extensions, 4 concrete box culverts, on Paint Creek Rd., Project 249-A; 7 concrete box and slab culverts on Wills-Jordan Creek Rd. Project 183-A and 246-A. Address County Road Engineer, Court House.

CONTRACTS AWARDED

N. Y., Auburn—REFRIGERATION EQUIPMENT—Comrs. Dpt. Correction, State Office Bldg., Albany, refrigeration equipment, new mess hall, kitchen and bakery, Auburn Prison, to Mollenberg-Betz Mchy. Co., Inc., 20 Henry St., Buffalo, $17,792. Noted Jan. 21.

MATERIALS

PROPOSED WORK

WATER PIPE—**Santa Barbara, Calif.**—City Council, V. E. Trace, supt. Water, City Hall, purchasing 4, 12 and 16 in. water pipe for replacement mains in 14 blocks in Upper West Side. $11,000.

WATER MAINS—**Gretna, La.**—City plans 12,000 ft. 4- to 8-in. watermains, etc. J. Gidiere, City Hall, engr.

SEWER MATERIALS—**Brandon, Man.**—City, G. F. Sykes, clk., City Hall, purchasing materials for sewer construction. $15,210. W. H. Shillinglaw, City Hall, engr.

BIDS ASKED

GRAVEL — **Boone, Ia.** — Apr. 6, at office Auditor Boone Co., 38,000 cu.yd. construction and 40,000 cu.yd. maintenance gravel.

CULVERT PIPE, etc.—**Indianola, Ia.**—Mar. 15, at office Auditor Warren Co., seasons supply of lubricating oil, grease and gasoline, 7,000 lin.ft. corrugated, c.i. and concrete culvert pipe, various sizes, 50 cwt. 50d common wire nails, 250 gal. guard rail white paint.

PIPE, LUMBER, etc.—**Jefferson, Ia.**—Mar. 15, at office Auditor Greene Co., 6,000 lin.ft. creosoted pipe, 116,400 bd.ft. untreated lumber, 56,400 bd.ft. treated lumber, 4,220 lin.ft. treated piling.

SURFACE TREATMENT — **Maryland** — Mar. 15, by State Roads Comn., Baltimore, 1,480,748 gal. surface treatment for 362 mi. roads for five groups of hys. in various counties. G. C. Uhl, chn.; adv. E. N.-R. Mar. 10.

TAR COLD PATCH, etc.—**Maryland**—Mar. 15, by State Rd. Comn., Baltimore, 500,000 gal. each tar and asphalt cold patch, 350,000 gal. penetration asphalt. G. C. Uhl, chn.; adv. E. N.-R. Mar. 10.

GRANITE EDGESTONES—**Boston, Mass.**—Mar. 18, by Supply Dpt., P. A. Chapman, supt., granite edgestones to P. Wks. Dpt. as specified.

WATER PIPE—**Springfield, Mass.**—Mar. 28, by Bd. Water Comrs., H. M. King, supt., 14,400 ft. Class E or centrifugally cast 8 in. c.i. water pipe, valves; adv. E. N.-R. Mar. 10.

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Materials (Continued)

BITUMINOUS—**Minneapolis Minn.**—Mar. 25, by State Hy. Dpt., 1246 University Ave., St. Paul, furnishing, applying 10,000,000 gal. bituminous on trunk hys.

BITUMINOUS MATERIALS — **Minneapolis, Minn.**—Mar. 22, by State Hy. Dpt., 1246 University Ave., St. Paul, furnishing about 130,000 gal. bituminous materials for crack filling and pavement repair.

CAST IRON SPECIALS—**Minneapolis, Minn.**—Mar. 14, by F. S. Gram, city purch. agt., furnishing 25 tons 30 in. c.i. specials. $2,000. N. W. Elsberg, city engr.

CASTINGS—**Minneapolis, Minn.**—Mar. 15, by F. S. Gram city purch. agt., furnishing 110 tons 6- to 24-in. c.i. special castings. $5,000. N. W. Elsberg, city engr.

ROAD OIL and CUT-BACK ASPHALT—**Winona, Minn.**—Mar. 21, by City Council, G. W. Hoffman, recorder, furnishing 100,000 or more gal. road oil f.o.b. tank cars, two 20,000 gal. or more gal. cut-back asphalt. E. E. Chadwick, city engr.

LUMBER—**New York, N. Y.**—Mar. 14, by M. W. Kenny, deputy and acting clk. Dpt. Purchase, Municipal Bldg., lumber and wood paving blocks to Dpts. Correction, Parks-Bronx, Plant and Structures, Water Supply, Gas & Electricity, Fire and Police Dpts.; highway, roofing and building materials, Dpts. Correction, Parks-Bronx, Parks-Brooklyn and Parks-Manhattan.

PIPE, etc.—**New York, N. Y.**—Mar. 15, by M. F. Kenney, deputy and acting comr. Purchase, Municipal Bldg., pipe, pipe fittings, valves, engineers, plumbers and steam fitters supplies, to Dpts. Correction, Parks-Bronx, Parks-Brooklyn, Water Supply, Gas & Electrictiy, and Police Dpt.

RAIL—**New York, N. Y.**—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, taking bids 50,000 tons rail.

ROAD SURFACING MATERIAL—**New York, N. Y.**—Mar. 16, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., 600,000 gal. bituminous road surfacing material asphalt road oil for cold application; 20,000 cu.yd. steam cinders.

PAVING BRICK, etc.—**Cleveland, O.**—Mar. 17, by City, A. J. Preusser, ch. clk., 4,000,000 paving brick, 10,000 sq.yd. medina paving block, 5,000 ft. medina curbing, 5,000 ft. sandstone curb and 12,000 ft. granite curb.

CONTRACTS AWARDED

LEAD COVERED CABLE—**Los Angeles, Calif.**—T. Oughton, purch. agt. Los Angeles Water Dpt., City Hall, furnishing lead covered cable, Spec. 2737, to General Cable Corp., 939 East 4th St., $23,900. Noted Jan. 21.

PIPE and FITTINGS—**Pacific Grove, Calif.**—E. C. Hulbert, city clk., furnishing 2,300 ft. 2 in., 750 ft. 1½ in., 2,200 ft. 1¼ in., 9,000 ft. 1 in. galvanized steel pipe and 633 fittings, to Holmans Department Store, Pacific Grove, $1,575. Noted Feb. 25.

TROLLEY WIRE—**San Francisco, Calif.**—L. S. Leavy, city purch. agt., 4 mi. 3/0 round trolley wire, to General Cable Corp., 465 10th St., at $17.65 per 100 lb. and $20 for reels returned.

OIL—**Indianapolis, Ind.**—Board of Park Commissioners, City Hall, 100,000 gal. tar oil, to Republic Creosote Co., 1615 Merchants Bank Bldg., $8,500. Noted Feb. 11.

CULVERT PIPE, etc.—**Sibley, Ia.**—F. W. Folkers, aud. Osceola Co., 550 ft. 15 in. culvert pipe, 150 ft. 18 in. and 216 ft. 3[illegible] in. rein.-con. pipe, 76 ft. 36 in. pipe, to Sibley Cement Co., Sibley, $1,952; concrete for 3 conc. culverts and 1 extension, to F. I. Cummins Constr. Co., Sioux Falls, S. D., $734. Noted Feb. under "Streets and Roads."

ASPHALT and ROCK DUST—**Topeka, Kan.**—City, F. W. Knapp, clk., 10 cars asphalt, to Texas Co., Dwight Bldg., Kansas City, Mo., at $13.40 per net ton; 20 cars rock dust, to Scott Hydraulic Cement Co., Fort Scott, at $4.45 per ton.

IRON CASTINGS—**Salem, Mass.**—City, Purchasing Agent, City Hall, furnishing iron castings as specified to Water and Street Depts., to Salem Iron Foundry Co., off Bway., $0.035 and $0.025 per lb. respectively.

BRIDGE LUMBER—**Meridian, Miss.**—Lauderdale Co., to Gulf States Creosoting Co., Meridian, 6 months supply bridge lumber, as follows, 12 lb. treated lumber at $42 per 1,000 ft. B.M., 16 lb. treatment $46.50 per 1,000 ft., 12 lb. treated piling at $0.30 per lin.ft., 16 lb. $0.34, to include creosoted lumber of all dimensions for building bridges during next 6 months.

GRAVEL—**Nebraska** — State, J. R. Ferris, agt., State House, Lincoln, 4,525 cu.yd. gravel, Patrol 201 and 1,300 cu.yd. Patrol 201, both Washington Co., to Abel Constr. Co., 308-11 Terminal Bldg., Lincoln, $6,150 and $1,604 respectively; 1,454 cu.yd. gravel, Patrol 729, Hooker Co. and 2,000 cu.yd., Patrols 733 and 734, Thomas Co., to W. Neifeldt, Jr., Grand Island, $1,280 and $2,192 respectively. Grand total, $11,226.

ASPHALT SAND, etc.—**New York, N. Y.**—S. Levy, pres. Manhattan Boro, Municipal Bldg., 15,000 cu.yd. asphalt sand, to Z. Mahoney, 430 Carroll St., Brooklyn, $12,600; 8,000 cu.yd. ¾ in. binder stone, to New York Trap Rock Corp., 101 Park Ave., $13,004; 700,000 gal. asphaltic cement, to Warner Quinlan Co., 2 Park Ave., $27,090. Grand total $52,730. Noted Feb. 18.

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DUST and SAND—**New York, N. Y.**—S. Levy, pres. Manhattan Boro, Municipal Bldg., 4,000 tons inorganic dust, to New York Trap Rock Corp., 101 Park Ave., $18,920; 4,000 cu.yd. sand grit, to Colonial Sand & Stone Co., 551 5th Ave., $6,760. Noted Feb. 11.

TRACK MATERIALS—**New York, N. Y.**—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., bolts and nuts, also spikes, to Oliver Iron & Steel Corp., 50 Church St., New York, $13,062 and $25,828 respectively; open hearth rail, to Bethlehem Steel Corp., 25 Bway., $225,488; tie plates, to Republic Steel Corp., Lincoln Bldg., $45,898; malleable iron, to Q and C Co., 90 West St., $9,056; joint bars, to Rail Joint Co., 165 Bway., $36,781; special work, to Ramapo Ajax Corp., 230 Park Ave., $42,600. Grand total $398,713. Noted Feb. 11.

STRUCTURAL STEEL—**Texas**—G. Gilchrist, state hy. engr., Austin, and Bd. Supervs. Young Co., 485 tons structural steel for steel, concrete vehicular bridge over Brazos River in Young Co., to Petroleum Iron Wks., Beaumont, for State Hy. Dpt., Austin, and Young Co. Noted Jan. 14, under "Bridges."

PIPE—**Richmond, B. C.**—See "Sewers."

EQUIPMENT

PROPOSED WORK

COAL BURNING EQUIPMENT — **Pittsburgh, Pa.**—City Council plans purchasing automatic coal burning equipment for heating boilers at East End Asphalt Plant. $5,000. C. M. Reppert, city engr.

BIDS ASKED

TRACTOR — **Hodge, La.** — Southern Advance Bay & Paper Co., Inc., in market gasoline tractor wiht 30 ft. boom and dragline with Fresno scraper.

PUMP—**Boston, Mass.**—Boston Harbor Co. in market for about 7½ x 6 x 10 Duplex pump.

CENTRIFUGAL PUMPS — **Cincinnati, O.** — Mar. 15, by C. E. Lex, Jr., city purch. agt., Room 143, City Hall, one steam turbine driven centrifugal pump and appurtenances to be constructed, delivered, erected at main pumping station, 2545 Eastern Ave.; two steam turbine driven centrifugal pumps and appurtenances to be constructed, delivered and erected at Western Hills Station, Queen City Ave.

REFRIGERATION SYSTEM, etc.—**Cleveland, O.**—Mar. 16, by Juvenile Courts Building Comn., J. H. Harris, chn. Building Com., Court House refrigeration system, cabinet work, laundry equipment, floor covering for detention home, construction of which is nearing cocmpletion.

METERS, etc.—**Aberdeen, S. D.**—Mar. 21, by City Council, L. W. Kohloff, city aud., furnishing one 8 in. and one 12 in. main line meter each with rate-of-flow recorder and totalizer; three 2 in. water cart meters with adapters; three 2 in. portable or semi-portable meters.

TRACTOR—**Hillsboro, Tex.**—Mar. 28, by Hill Co., c/o Auditor, Hillsboro, one 20 to 50 hp. crawler type tractor.

PUMPS—**Islington, Ont.**—Etobicoke Twp. in market 3 vertical raw sewage pumps. W. H. Walker, engr.

CONTRACTS AWARDED

STEAM GENERATING EQUIPMENT — **Duluth, Minn.**—Duluth Steam Corp., steam generating and mechanical equipment for central steam power plant, incl. 4 large boilers, to Edgemoor Iron Co., Edgemoor, Del., est. $500,000. Noted Oct. 15 under "Power Plants."

FOREIGN

Colombia, Cartagena — Government, Bogota, authorized the Minister of P. Wks., to execute a contract for constructing and equipping ocean and river port works and dredging harbor, incl. 1,065,000 ft. rein.-con. wharf, warehouses, custom house and railway connections, 2,000,000 cu.yd. dredging in harbor and entrance to existing canal connecting port with Magdelena River to Frederick Snare, 114 Liberty St., New York. Est. $2,850,000. The Government and Andean Natl. Corp., subsidiary of Standard Oil Co. of New Jersey will furnish $1,000,000 each and contractor will furnish balance.

Union Socialist Soviet Republics—Institute of Applied Mineralogy, c/o Amtorg Trading Corp., 261 5th Ave., New York, plans plant for working of garnet deposits at Shuyeretskaya, Karelian Republic.

Union Socialist Soviet Republics—Oil Trust, Soviet Russia, c/o Amtorg Trading Co., 261 5th Ave., New York, making plans 488 mi. pipe line from Emba to Orsk. Construction by technical contracts.

U. S. S. R., Leningrad — Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, plans 2nd unit aluminum paint manufacturing plant to add 8,000 tons aluminum oxide and 4,000 tons metallic aluminum to annual production, by technical aid contracts. To be completed Jan., 1933.

U. S. S. R., Moscow—Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, Palace of Soviets (government or capitol building) by technical aid contracts. $10,000,000. **Maturity soon.** H. O. Hamilton, 101 Park Ave., New York, and 491 William St., East Orange, N. J., archt. Noted Sept. 17.

Commercial Buildings

PROPOSED WORK

Ark., Clarksville—College of the Ozarks, plans by A. O. Clark, Rogers, new assembly hall and chapel. $100,000. Noted Jan. 14.

Me., Pittsfield—Maine Central Institute Finance Com., raising $50,000 funds gymnasium. Architect not appointed.

Mass., Boston — City, Dpt. P. Buildings, sketches by J. M. Gray, 175 High St., police station and garage, on site of present Joy St. Station. To exceed $150,000.

Mass., Fitchburg—Burbank Hospital, C. T. Croker, supt. Buildings, revised plans by J. Purdon, 89 Broad St., Boston, isolation unit, Nichols Rd. $150,000. Former bids rejected. Noted Feb. 11.

Mass., Great Barrington—Town, G. Church, chn., Building Com., new sketches by Towner Sellew Associates, 329 Main St., Middletown, Conn., 2 story, basement, 140 x 150 ft., brick memorial community building, incl. gymnasium, swimming pool, Bridge and School Sts. $150,000 or more. Noted Dec. 4, 1930.

Mass., Holyoke—Blessed Sacrament Parish, M. P. Kavanaugh, pastor, raising funds for church, Northampton St. and Westfield Rd. $150,000 or more. Architect not appointed. Noted Nov. 12.

Mass., Sharon—L. Dvlinsky (owner), Sharon, and Eisenberg & Feer, archts., 11 Beacon St., Boston, soon lets contract 4 story, basement, brick, steel hotel, plain found., on Lake Massapoag. $200,000.

Mass., Springfield—Christ Church Cathedral, Chestnut St., sketches by K. Parlett, 25 Harrison Ave., chapel, Chestnut St., $150,000 or more.

Mass., Topsfield—Town, D. Phillips, chn. Building Com., plans by Kilham, Hopkins & Greeley, 9 Park St., Boston, 2 story, basement, brick, stone, steel grade and high school, plain found. $200,000. Noted Oct. 15.

Mass., Wareham — Town, Bd. Selectmen, sketches by W. G. Upham, 700 Washington St., Norwood, memorial town hall, $150,000. Noted Feb. 25.

Mass., Worcester—Bd. City Trustees, J. F. Tinsley, pres., 15 Regent St., trade school addition, Concord and Prescott Sts. $150,000. Architect not appointed.

Mo., Kansas City—Unity Society of Practical Christianity, 913 Tracy St., sketches by Greenbaum, Hardy & Schumacher, 216 Scarrett Bldg., 4 story, basement, 85 x 190 ft. unity temple, 47th and Jefferson Sts. $250,000. Financing project now.

Mo., St. Joseph—Zion Evangelical Church, 9th and Faran Sts., plans by R. E. Peden, c/o St. Louis Bank Building & Equipment Co., 900 Sidney St., St. Louis, 1 story, 60 x 125 ft., granite, marble, concrete and bronze mausoleum, incl. chapel, 390 crypts, etc., 2324 Ashland Ave., in Ashland Cemetery. $200,000. Memorial Builders, Inc., c/o S. Linzy Sheperd, Arcade Bldg., in charge of sale of space. Maturity depends on sale of space. Size and cost tentative.

N. Y., New York—Associates, c/o W. Lescaze, archt., and associates, 250 East 43rd St., plans 24 elevated apartments Chrystie, Forsyth Sts., from Canal to 1st Sts. $6,000,000.

New York—F. D. Roosevelt, gov., approved $20,000,000 for constructing prisons and hospitals, incl. construction work at Gowanda State Hospital $3,187,800, Kings Park State Hospital $2,417,700, Pilgrim State Hospital $1,850,000, Rochester State Hospital $1,528,000, Rockland State Hospital $804,600, Willard State Hospital $842,650, Rome State School $693,500, Letchwork Village, Thiells, $1,839,000, Wassaic State School $1,034,100, new prison or correctional institution, site not selected $1,137,500, new institution for male defective delinquents, site not selected $1,412,500; also $6,906,500, incl. constructing and reconstructing cell blocks at Elmira Reformatory $1,306,000, completing hospital for treating tuberculosis, Ithaca $325,000, hospital for treatment tuberculosis, site not selected $1,000,000; armory, Buffalo $900,000, armory in Jamestown $225,000, and armory in Binghamton $225,000.

N. Y., New York—Bank of Manhattan Trust Co., 40 Wall St., 53 x 100 ft. bank and office, Madison Ave. and 64th St. $150,000. **Maturity in October.**

N. Y., Yonkers—R. C. Associates, Inc., 11 West 42nd St., New York, 15 acre residential development, Central Ave. $1,000,000.

O., Cleveland—Bd. Educ., F. G. Hogen, dir., plans by G. M. Hopkinson, Administration Bldg., addition to Fowler School, $219,000; addition to Hough School $44,000; addition to Dunham School $71,000.

O., Clevelnad—Moreland Land Co., c/o J. E. Latimer, Union Trust Bldg., plans by Fox, Duthie & Foose, 1936 Union Trust Bldg., two 2 story, 60 x 86 ft. apartments, 3 story, 64 x 72 ft. store, office, brick, steel, concrete, Shaker Blvd. $180,000.

O., Dayton—Barney Community Center, c/o G. Horries Gorman, Valley St., children's hospital, 536 Valley St. $150,000. **Maturity 1932.** Architect not appointed.

Pa., Erie—Mercyhurst Colleges & Seminary, 501 East Cooper Mill Rd., c/o Sisters of Mercy, plans by W. T. Monahan, 805 Palace Hardware Bldg., and takes bids about Mar. 15, O'Neil Memorial Tower and Chapel, 2 story, basement, brick, stone, East Cooper Mill Rd. $150,000.

Pa., Erie—St. Vincents Hospital, 564 West 8th St., O. N. Chafe, pres. Bd. Trustees, plans

Commercial Buildings (Continued)

by Meyers & Johnson, Commerce Bldg., hospital and nurses' home additions, also new power plant. $400,000. E. F. Stevens, 45 Newberry St., Boston, Mass., consult. archt. Noted Nov. 19.

Pa., Huntingdon — Pennsylvania Industrial School plans by R. G. Howard, Dep. Natl. Bank Bldg., Du Bois, central building containnig shops, kitchen $100,000, cottage group, central building, five wings $200,000, boiler house $25,000.

Pa., Phila.—Episcopal Hospital, R. L. Montgomery, chn., Fidelity-Philadelphia Bldg., soon lets contract 9 story, basement, 60 x 78 ft. hospital, Front St. and Lehigh Ave. $300,000. H. Trumbauer, Land Title Bldg., Broad and Chestnut Sts., Phila., archt. Noted Dec. 31.

Pa., Steelton—Bell Telephone Co. of Pennsylvania, 1835 Arch St., Phila., sketches automatic telephone exchange. $150,000.

R. I., Kingston—Beta Phi Fraternity, R. C. Bates, 19 Barnes St., Providence, sketches by E. C. Cull, 75 Westminster St., Providence, fraternity house. $150,000.

R. I., Pawtucket — Pawtucket and Central Falls Y. M. C. A., C. R. Martin, vice pres., Summer St., altering and constructing Y. M. C. A. addition. $150,000. Architect not appointed.

Tex., Gladewater—Bd. Educ. 2 story, 83 x 206 ft. rein.-con., brick high school $125,000-$150,000. Voelcker & Dixon, 207 Perkins-Snider Bldg., Wichita Falls, archts. Election soon to vote on bonds for same.

Va., Blacksburg—See "Unclassified."

Wis., Campbellsport — St. Josephs Convent, plans by P. Brust, 105 Wells St., Milwaukee, 5 story, basement, 100 x 200 ft. convent addition.

Ont., London—Victoria Hospital Trust plans by Watt & Blackwell, Victor Bldg., Dundas St., and takes bids about June 1, 6 story, 80 x 200 ft., brick, steel hospital. Noted Feb. 12, 1931.

Que., Hull—Notre Dame Church, plans by L. Leblanc, 45 Rideau St., Ottawa, Ont., remodeling interior of church. $200,000.

BIDS ASKED

Ind., Sellersburg—Mar. 21, by School Commissioners, 2 story, basement 128 x 145 ft., rein.-con., steel, metal lath, hollow tile, grade school. $150,000. C. Byfield, 916 Peoples Bank Bldg., Indianapolis, archt. Noted Dec. 31.

Mass., Boston—Mar. 25 (extended date), by City of Boston, Dpt. School Buildings, 3 story, basement, brick, stone, steel, public latin school for boys, plain found., Louis Pasteur Ave. $850,000. McLaughlin & Burr, 88 Tremont St., archts. Noted Jan. 14.

Mich., Detroit—Malcolmson, Higginbotham & Trout, archts., Malcolmson Bldg., bids about Mar. 15, 4 story, basement, 81 x 160 ft., rein.-con., brick, steel branch building, plain found., Elizabeth St., for Y.W.C.A., 2230 Witherall St. Noted Dec. 17.

Mass., Dorchester (sta. Boston)—City of Boston, Dpt. School Buildings, bids about Apr. 1, 3 story, basement, girls' high school, brick, stone, steel, plain found., Grove Hall Sect. $900,000. G. E. Robinson, 80 Federal St., Boston, archt. Noted Nov. 5.

Mass., Plymouth—Mar. 15, by Town, School Comn. and F. I. Cooper Corp., archts., 47 Winter St., Boston, 2½ story, brick, stone, steel auditorium and gymnasium addition to Junior and Senior High School, plain found., Lincoln St. $350,000. Noted Apr. 16.

Mass., South Harwich—H. Adams, c/o R. C. Cameron 1011 Hyde Park Ave., Hyde Park, taking bids, 2 story, basement, 180 x 240 ft., brick, hospital, plain found. Est. exceeds $150,000. F. H. Richenburg, 75 Eugusta Ave., Roslindale archt. Noted Feb. 25.

Neb., Omaha — Supreme Forest Woodman Circle, M. E. LaRocca, pres., 424 North 38th St., bids about Apr. 23, 3 story, basement, brick, steel office and headquarters building, 33rd and Farnam Sts. Site purchased. G. B. Prinz, Omaha Natl. Bank Bldg., archt. Noted Feb. 25.

N. H., Durham—Mar. 15, by University of New Hampshire, c/o E. H. Lewis, and E. T. Huddleston, archt., Durham, 3 story, basement, 2 wings, 60 x 130 ft. stone dormitory, plain found., on campus. $175,000. Noted Feb. 25.

N. J., East Orange—Mar. 17, by Metropolitan Building and Realty Co., 264 Main St., general contract 4 story, basement, 100 x 140 ft., brick, steel, apartment 499 William St., $300,000. Warren & Warren, 31 Clinton St., Newark, archts. Noted Feb. 25.

N. J., Princeton—F. F. Durang, archt., 110 West Dudley Ave., Westfield, taking bids 2 story, basement, brick, steel chapel, for St. Joseph's College, J. Dunn, pres., $175,000. Noted Dec. 31.

N. Y., New York—See "Contracts Awarded."

N. Y., New York—F. F. French Co., 551 5th Ave., bids about Mar. 15, (1st unit) excavation for residential development, Market and Henry Sts. $1,000,000 or more. Other separate contract bids to be taken later. Demolition in progress. Total cost $50,000,000. Noted Dec. 17.

N. Y., White Plains — See "Contracts Awarded."

O., Wickliffe—Mar. 19, by Bd. Educ., 2 story, basement, brick, steel, concrete high school addition. $150,000. Fulton & Taylor, 8120 Euclid Ave., Cleveland, archts. Noted Nov. 19.

Wis. Green Bay—Mar. 18, by St. Johns Catholic Congregation, J. A. Thieren, pastor, 4 story, rein.-con., steel, brick school building. $150,000. Foeller & Schoeber, Pine St., archts. Noted Jan. 21.

Wis., Plymouth—Mar. 19, by Bd. Educ., 2 story, basement, 90 x 100 ft. junior and senior high school building, 1 story, balcony 53 x 177 ft. auditorium and administration building, 1 story balcony, 72 x 80 ft. gymnaasium, all brick, steel, plain found., North St. M. Tullgren & Sons Co., 20 Prospect Ave., Milwaukee, archts.

CONTRACTS AWARDED

Conn., Weston—Town, School Com., 1 story, basement, 120 x 150 ft., brick, steel school, library and laboratory, to W. Martin & Son, 164 State St., Bridgeport, heating and plumbing, to W. Dickson, Westport; electrical wiring, to Westport Electric Co., Westport. Former contract rescinded. Noted Jan. 12.

Md., Baltimore—Palmer & Lamdin, archts., 513 North Charles St., 10 story, basement, brick, steel apartment, for Northway Apartment Co., I. C. Goldstein, pres., Calvert Bldg., to Price Constr. Co., Maryland Trust Bldg., $1,000,000. Noted Jan. 28.

N. Y., Marathon—Marathon Central School, school addition, to J. Buckheit & Son, Syracuse, $149,990.

N. Y., New York—Ace Carpentry, Inc., 27 Featherbed Lane, P. Aginsky, pres., 6 story, 95 x 125 ft. apartment, North St., Davidson and Jerome Aves., day labor and separate contracts. $200,000. H. I. Feldman, 15 West 44th St., archt.

N. Y., New York—Arborview Realty Corp., 2325 Ryer Ave., 6 story, 95 x 115 ft. apartment, Neried and Matilda Aves., separate contracts. $195,000. N. Rotholz, 155 East 42nd St., archt.

N. Y., New York—E. Peskar, 332 East 149th St., 4 story, basement, brick, steel apartment, Arnow Pl. and Eastern Blvd., separate contracts. $150,000. J. L. Crausman, 332 East 149th St., archt.

N. Y., White Plains—Gedney North, Inc., 2644 Bway., New York, residential development, separate contracts. To exceed $1,000,000. H. T. Jeffery, 90-50 Parsons Blvd., Jamaica, archt. Noted Feb. 18.

Pa., Bellevue — Owner, c/o M. Nirdlinger, archt., 905 Empire Bldg., Pittsburgh, general contract 5 story, basement, 97 x 137 x 277 ft., brick, limestone apartment, incl. 2 ramp garage, Lincoln Ave., to R. K. Sefton, Dollar Savings & Trust Co. Bldg., Pittsburgh. Est. $500,000.

Industrial Buildings

PROPOSED WORK

Conn., Meriden—Southern New England Ice Co., c/o R. G. Hadley, genl. mgr., soon takes bids ice manufacturing plant, brick. $40,000 or more. Private plans.

Conn., Willimantic—Brown Bros. & Co., Ash St., ice manufacturing plant, brick. $40,000. Private plans.

Idaho, Nampa—Ling Packing Co. altering and constructing packing plant addition. $150,000.

Ia., Davenport—Phillips Petroleum Co., Bartlesville, Okla., sketches concrete, brick bulk storage and distributing plant, with necessary tanks. $45,000.

Mass., Leominster—Leominster Ice Co., 299 Pleasant St., soon lets contract 1 story, 50 x 75 ft., brick, steel ice manufacturing plant, Pleasant St. $40,000. Private plans.

Mass., Milford—W. H. Casey & M. Smith, Main St., 1 story auto service and sales garage. $50,000. Private plans.

Mass., Waltham—Goodyear Tire & Rubber Co., Inc. 1144 East Market St., Akron, O., lessee, soon lets contract 1 story, 35 x 115 ft., brick, steel, super tire service station, Main and Bank Sts., for Woodward & Tyler, 844 Main St. $40,000. Private plans. Noted Dec. 14.

Mo., St. Louis—Kroger Grocery & Baking Co., A. S. Grogg, genl. mgr., 3801 Vista Ave., St. Louis, and 35 East 7th St., Cincinnati, O., postponed taking bids 4 story, basement, 85 x 190 ft. and 1½ story, 43 x 63 ft. rein.-con., brick bakery and garage, 1311 South 39th St. $700,000. E. E. Neimann, 3816 Shaw Ave., archt. Noted Feb. 18.

N. H., Milford—Souhegan Motor Co., c/o A. W. Osberg, archt., 795 Elm St., Manchester, soon takes bids on revised plans altering and constructing 2 story, 50 x 105 ft., rein.-con., brick, steel garage addition. $40,000.

N. Y., Brooklyn—J. Ballenberg, Kings Highway and Stillwell Ave., bids about December general and separate contracts 72 x 105 ft. service garage, Kings Highway and West 13th St. H. J. Nurick, 830 Pulman Ave., archt. and engr. Contingent on securing permit for construction.

N. Y., Freeport—Consolidated Laundries, Inc., 122 East 42nd St., New York, sketches laundry, Liberty Ave. and Sunrise Hy. $200,000. **Maturity indefinite.** Architect not appointed. Site purchased.

N. Y., New York—Dpt. Hospitals, Municipal Bldg., sketches by C. B. Meyers, 31 Union Sq., top story addition to power plant, conveyor shaft, service tunnels and soot collection house for Bellevue Hospital, 1st Ave. and 28th St. $200,000.

N. Y., New York—Nine Hundred Ninety Five Southern Boulevard Corp., 347 Madison Ave., plans by C. F. Winkelman, 101 Park Ave., 2 story, 40 x 125 ft. storage and store, Southern Blvd. and Westchester Ave. $60,000.

Va., Norfolk—Victory Motor Car Co. plans by P. Moser, Norfolk, 1 story, 225 x 800 ft., brick automobile factory, East Branch Elizabeth Rd. $250,000. **Maturity 1933.**

Wyo., Rawlins—Iowa Soda Products Co., c/o H. Pettigrew, vice pres., Council Bluffs, Ia., soda plant, furnishing, installing drying plants, grinders, filters. $40,000.

B. C., Vancouver—Andrew Sherer Ltd., 844 Cambie St., 4 story, 50 x 120 ft., rein.-con. warehouse, Homer St. $60,000. Site purchased.

Man., Grandview—Grandview Co-operative Oil & Supplies, R. Johnston, mgr., service station, oil tanks and warehouse.

N. B., St. John — Federated Oil & Refiners Ltd., sketches plant. $100,000.

Ont., Sarnia — Ambassador Breweries Ltd., sketches plant. $100,000.

Que., Montreal—McColl-Frontenac Oil Co. Ltd., Notre Dame St. E., 3 m.g. oil storage plant, garage and warehouse. $75,000.

BIDS ASKED

Conn., New Haven—Mar. 16 by Berger Bros., 35 Derby Ave., 5 story 40 x 120 ft., brick, timber factory, Derby Ave. $75,000. D. Orr, 956 Chapel St., archt.

Ga., Rossville—Mar. 15, by Peerless Woolen Mills, 3 story, 100 x 300 ft., brick, concrete plant addition, incl. warehouse and processing plant, plain founds. $100,000. W. H. Sears, James Bldg., Chattanooga, Tenn., archt. Noted Aug. 27.

La., Destrehan—Pan-American Petroleum & Transportation Co., Canal Bank Bldg., New Orleans, and 122 East 42nd St., New York, soon lets contract 1 story bulk oil storage and distribution plant. $40,000.

Mass., Milford—See "Contracts Awarded."

Mass., Watertown—Mar. 14, by H. L. Kennedy, archt. and engr., 80 Boylston St., Boston, 1 and 2 story, 40 x 150 ft., brick, maintenance plant, plain found., for Owner, c/o archt. and engineer. $40,000.

N. J., Passaic—See "Contracts Awarded."

N. Y., Mariners Harbor—M. G. Uslan, archt., 57 Bay St., St. George, taking bids revised plans 1 story, basement, brick, steel, dairy plant, Forrest Ave., for J. Weissglass, 2014 Forrest Ave., Elm Park, est. $40,000. Noted June 4.

CONTRACTS AWARDED

Conn., Hartford—Highland Ice Co., 330 Hudson St., 50 x 125 ft. ice plant, 20 ft. high, 80 tons daily capacity, to T. Bogan, 50 Riggs Ave., West Hartford; machinery, to York Ice Mchy. Co., 2nd Ave. and 42nd St., Brooklyn. Est. $75,000. Noted Mar. 3.

Conn., Middletown—N. King, 20 Boston Rd., 1 story, 40 x 90 ft. ice manufacturing plant, brick, steel, Boston Rd., to O'Brien Bros., Middletown. Est. $40,000.

Ind., Michigan City — City, general contract brick, steel municipal service and storage plant, to Tonn & Black, 104 North Franklin St. Est. $40,000.

Ind., New Albany—M. Fine & Sons, general contract 2 story, basement, 100 x 160 ft., steel frame, maple flooring factory building, Main and 14th St. to United Constr. Co., 301 Breslin Bldg., Louisville Ky. Est. $42,000.

Mass., Holyoke—Holyoke Ice Co., W. T. Wilson, pres., 65 Prospect St., 1 story, 60 x 120 ft. artificial ice plant, brick, steel, plain found., to Casper-Ranger Constr. Co., 20 Bond St. Est. $40,000. Noted Feb. 18.

Mass., Leominster—Harris Ice Co., Inc., 12 Main St., 2 story, brick, ice manufacturing plant, plain found., Main St., North Leominster to Proffit & White Constr. Co., 13 Oliver St., Fitchburg, ice machinery to Frick Co., 185 Lincoln St., Boston. Est. $50,000. Noted Feb. 25.

Mass., Milford—Niro & Niro Co., 61 Main St., reconstructing 2 story, brick, stucco factory, plain found., recently destroyed by fire, Main St., separate contracts. $40,000. R. A. Cook, 57 Prospect St., archt.

Mass., Springfield—Colonial Beacon Oil Co., 30 Beachman St., Everett, 1 story, 30 x 150 ft. and 15 x 34 ft., rein.-con., brick bulk terminal retail station, office, loading rack, tanks, metal pump house, Page Blvd., to C. O. Olsson, 621 Mt. Auburn St., Cambridge. Est. $40,000.

N. J., Passaic—S. Slaff, 42 Ascension St., rebuilding 100 x 100 ft. main factory building with 25 x 100 ft. 2 story, basement, separate contracts. $40,000. Preiskel & Skvarla, 631 Main Ave., archts. Noted Feb. 25.

N. Y., Buffalo—Irving Air Chute Co., 374 Pearl St., 1 story, 82 x 162 ft. factory and office, 1668 Jefferson St., to J. W. Cowper Co., Rand Bldg., $40,000.

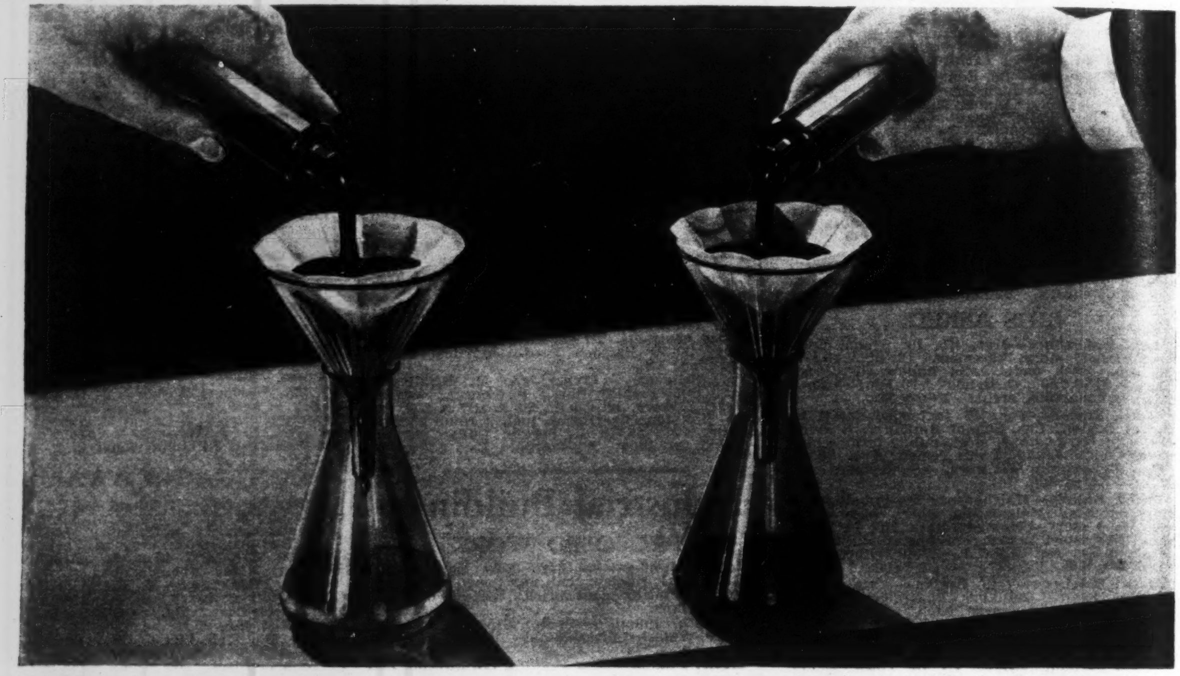
O., Cleveland—Industrial Rayon Co., H. S. Rivitz, pres., West 98th St. and Walford Pl., 1 story, 80 x 430 ft., brick, steel factory addition, to G. A. Rutherford Co., 2725 Prospect Ave. Est. $150,000. Noted Mar. 26, 1931.

Pa., Pittsburgh—M. Lanz Brick & Tile Co., 2907 Carson St., 1 story, 40 x 60 ft. brick plant, steel framing and siding, mill type, steel beam, Jane and 34th Sts., to Reliance Steel Co., Rankin. Owner builds foundation. Est. $50,000.

Wis., Milwaukee — Filer & Stowell, 219 Becher St., general contract 1 story, basement, 63 x 168 ft. factory, to Klug & Smith, 111 East Wisconsin St.

See proposal advertising on page 70

"Here's the dope on the COLLOIDAL PROCESS"



This picture shows the difference between a suspension of ground graphite and clay in water and a colloidal solution of graphite and clay. The clay and graphite in suspension can be completely removed by pouring the solution through a filter paper (left hand flask). The water comes through the filter clear. With the Colloidal solution (right hand flask) the graphite and clay run right through the paper. That shows the difference between the size of the particles of Venus lead and those of any other lead.

ORDINARILY we would shrink from bothering you architects with facts about the making of pencils. But someone told us you might be interested in such technicalities. So we're not taking any chances. Here, for those of you who won't be bored, is a brief description of the Colloidal Process for making lead. It's the reason Venus is better.

Ordinarily lead is made by grinding clay and graphite together. The result is a relatively gritty mixture with unevenly distributed particles of clay and graphite.

We make Venus lead differently. By the Colloidal Process, we obtain a mixture of colloidal solutions of clay and graphite. This means exceedingly minute particles and a microscopically homogeneous mixture, neither of which is possible by any other process. That is why the lead in Venus Pencils is the smoothest pencil lead that has ever been made.

That's the dope, if you're interested. However, we feel pretty sure you're much more interested in the accuracy of grading of the 17 grades of Venus and the world-wide reputation of Venus as a fine drawing and drafting pencil.

Oh, we almost forgot. The American Pencil Company holds Patent Number 1,738,888. That's the patent on the Colloidal Lead Process. So Venus quality lead is exclusive with the American Pencil Company and Venus.

AMERICAN PENCIL COMPANY

212 Fifth Avenue, New York

VENUS PENCIL PRODUCTS ARE DISTRIBUTED IN CANADA BY VENUS PENCIL COMPANY, LTD., TORONTO

CONSTRUCTION NEWS

SECTION OF ENGINEERING NEWS-RECORD—MARCH 17, 1932

WATERWORKS

PROPOSED WORK

Colo., Pueblo—Trustees Pueblo Waterworks, c/o D. P. Porter, supt., 319 West 4th St., soon takes bids replacing 1,200 lin.ft. wooden flume with concrete flume. Noted Jan. 14.

Conn., New Britain — City, preparing plans dam at Gillette's Corners. $10,000. P. A. Merian, City Hall, engr.

Ill., La Grange—City Council, water softener. $16,000. E. Hancock, 1509 West Jackson Blvd., Chicago, engr.

Ill., Lincoln—Central Illinois Electric & Gas Co., 1½ m.g.p.d. well, 40 ft. deep, 40 in. diam. $15,000. M. S. Blackwell, Lincoln, engr.

Ia., Council Bluffs—City, enlarging and extending mains, new pumps. $150,000. Maturity in summer. E. E. Spetman, Council Bluffs, engr.

Kan., Anthony — City Council, waterworks. $15,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Kan., Wichita—City Council plans in progress water supply for disposal plant. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Mass., Canton—Town, Bd. Selectmen, water extensions. $25,000 appropriated.

Mass., Hanover—Town, Bd. Selectmen, waterworks. $25,000 appropriated.

Mass., Middleboro — Town, Bd. Selectmen, waterworks improvements. $23,180 appropriated.

Mass., Norton—Town, Bd. Selectmen, waterworks extension. $2,000-$5,000.

Mass., Pembroke — Town, Bd. Selectmen, waterworks, hys., bridges. $19,400 appropriated.

Minn., Willmer—City Councli, c/o H. Gunderson, city clk., bids in spring or summer furnishing, installing water tank. Pillsbury Eng. Co., 1200 2nd Ave., South Minneapolis, engr.

Mo., Trenton—City report in progress waterworks improvements, new intake for filtration plant. $10,000. Burns & McDonnell Eng. Co. 400 Interstate Bldg., Kansas City, engrs.

Neb., Omaha—Metropolitan Utilities, 18th and Harney Sts., 6 in. main in East Locust St. from 25th to 28th Sts. in East Omaha. J. Detweiler, supt.

Neb., Schuyler—City, c/o G. F. McKenzie, exhaust water line for power and light plant, incl. 3,000 ft. 12 in. c.i. and 3,000 ft. 15 in. clay pipe, well. Nixon & Reynolds, 309 Omaha Grain Exch. Bldg., Omaha, engrs.

N. Y., Douglaston—Dpt. Water Supply, Gas & Electricity, Municipal Bldg., New York, installing new and additional waterworks equipment. To exceed $15,000. Project awaiting approval of State Water Control Comn.

N. Y., White Plains — Common Council, mains in Minerva Pl., Main St. extension, Ogden Ave. extension, Earlwood Dr., Cushman Rd., Park Terrace, Brook and Harwood Aves. $12,000. E. Halpin, Jr., city engr.

N. D., Wellston—City Council, final plans and specifications under way and soon takes bids new clear well, filters, pumping equipment. $60,000. Burns & McDonnell Eng. Co., 406 Interstate Bldg. Kansas City, Mo., engrs. Noted Dec. 24.

Okla., Tulsa—See "Unclassified Buildings."

Pa., Waterford—Village plans 6 in. water supply system. $25,000. Evans & Priestly, sanitary engrs. of West Pennsylvania Bureau State Department of Health, meeting with committee. H. Wolford, chn. com.

Utah, Provo—Grand and Pleasant View Subdivisions have petitioned for annexation to city and to extend water system throughout subdivisions. $65,000. F. Deming, city engr.

B. C., Summerland—Dominion Govt., Ottawa, improving water supply incl. pumps, pipes, valves, motors, etc., at Dominion experimental station. $25,000. A. L. McNaughton, Dominion Water Power Bureau, Vancouver, engr.

BIDS ASKED

Ill., Lake Forest—Mar. 30, by A. D. Jackson, city clk., for A. D. Farwell, mayor and City Council, dual driven, low lift, 3,600 g.p.m. centrifugal pumping unit; adv. E. N.-R. Mar. 17. Noted Feb. 25.

Ill., Moline—Apr. 8, by City, covering filter plant of 5 m.g.p.d. nominal capacity, clear water reservoir, elevated water tank low lift pumps, c.i. mains. J. F. Huey, mayor; adv. E. N.-R. Mar. 17. Noted Feb. 25.

Ill., Wilmette—Apr. 5 (extended date), by village, covering filter plant 6 m.g.p.d. nominal capacity, low and high lift pumping station, 3 000 ft. 30 in. lake intake, clear water reservoir, superstructure, and accessories. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, engrs.; adv. E. N.-R. Mar. 10. Noted Mar. 10.

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Ind., Newcastle—Mar. 21, by City, D. C. McKee, clk., municipal water plant, incl. Diesel engines, generators, motor driven pumps, switchboard, transformers, fuel storage tanks, electrifying city waterworks plant. $15,000. Noted Feb. 19.

Ia., Ottumwa—Apr. 11, by F. Vaughn, city clk., 8 m.g. settling basin, 8 m.g.p.d. filtration plant, 5 m.g.d. clear water well basin, widening head race to hydro plant, lengthening present bridge at Blackhawk St. $205,000. Noted Feb. 18.

Mass., Palmer — Mar. 22, by Dpt. Mental Diseases, Room 109E, State House, Boston, water purification plant, furnishing piping and converting heating system at Monson State Hospital. $15,000 or more. Edward C. Brown Co., 77 Summer St., Boston, engrs.

Mont., Kalispell — Mar. 21, by W. Buckingham, supt. Water Dpt., laying 10,645 lin.ft. 6- to 20-in. mains. A. L. Saunders, city engr.

N. C., Roanoke Rapids — Mar. 21 (extended date), by Sanitary Dist. Bd., water and sewerage improvements, incl. automatic sewage pumping station, 20,000 ft. 30 in. outfall sewer, 500,000 gal. elevated steel tank. Spoon & Lewis, Greensboro, engrs. Noted Mar. 3.

Wash., Blaine—See "Contracts Awarded."

CONTRACTS AWARDED

Calif., Fresno—City Council (a) furnishing, installing pumps (b) allow for turn-ins, to Peerless Pump Co., 1902 East 67th St., Los Angeles (a) $8,170 (b) $1,230 respectively.

Ill., Flora — City Council, 1 m.g.p.d. filter plant complete, 5.5 mi. 12 in. c.i. pipe, 6.4 mi. electric transmission lines, river pump house, to H. A. Harrop, South Bend Ind., $140,000. Noted Jan. 28.

Mich., Kalamazoo—City Comn., E. E. Norman, supt. P. Utilities, 7 m.g. rein.-con. reservoir, incl. 42,000 cu.yd. earth excav., 4,960 cu. yd. A concrete, 840,000 reinforcing steel, etc., to H. G. Christman-Burke Constr. Co., 1010 Fisher Bldg., Detroit. $72,300 to $90,300 depending on specifications finally used. Est. $210,000. Noted Jan. 21.

Mich., Marquette — City, altering and constructing additions to waterworks, incl. 1,510 ft. 16 in. and 830 ft. 12 in. pipe, removing existing boilers, pumps, etc., furnishing, installing 2 dual drive and 1 motor driven pumps, general contract to Levine Bros., Marquette, $45,473; pumps, to Delaval Steam Turbine Co., 122 South Michigan Ave., Chicago, Ill., $15,875. Noted Feb. 4.

Minn., St. Paul—C. A. Carlson, city purch. agt., brass curb and corporation cocks, to H. Mueller Mfg. Co., Decatur, Ill., $3,149; c.i. gate valves and service connections, to Hedges, Walsh, Weidener Co., Dermon Bldg., Chattanooga, Tenn., $2,976; 155 gate valves, to Michigan Valve & Fdry. Co., Amer. Trust Bldg., Detroit, Mich., $2,441. Grand total $8,566. Noted Feb. 18.

Wash., Blaine—City, M. Sefern, water supt., furnishing 1,650 ft. 4, 6 and 8 in. Class 150 c.i. pipe, to U. S. Pipe & Fdry. Co., Webb and Crawford Sts., Birmingham, Ala., $853; laying pipe, to be done by City Water Dpt.

Wash., Lynden—City Water Dpt., E. A. Knittle, supt., furnishing 2,500 ft. 4, 6 and 8 in. Class 150 c.i. pipe, to Amer. Cast Iron Pipe Co., Smith Tower, Seattle, $1,331; laying pipe by day labor.

SEWERS

PROPOSED WORK

Calif., Signal Hill—City Council preparing plans 4.5 mi. 6- to 10-in. vitr. sewers. Present plan is to do trenching by day labor and call for bids to finish trench bottoms and furnishing, laying pipe. Funds will be provided out of general funds. To exceed $25,000. A. A. Taylor, City Hall, engr.

Minn., Rochester—Soon takes bids sanitary sewers $108,000, sewage disposal plant $178,000. Burns & McDonnell Eng. Co., 406 Interstate Bldg., Kansas City, Mo., engrs.

Neb., Omaha—City Council storm sewers in 11th and Izard Sts. to Missouri River. $150,000. H. Beal, 1113 South 33rd St., engr.

N. J., Rahway—Common Council preliminary plans pumping plant, near city line, to be used in connection with Rahway Valley Trunk Sewer. $60,000. A. Potter, 50 Church St., New York, consult. engr.

New York—Bd. Estimate approved funds for local improvements, incl. sewers, paving in Manhattan Boro, $345,000; Brooklyn Boro, $44,800; Bronx Boro, $145,100; Queens Boro, $228,900, and Richmond, $19,900. Total $783,700.

N. Y., White Plains—Common Council, bids in late spring, sewers in Hazelton Dr., Gene Crossing, Thelma Pl., Old Mamaroneck Rd., Carolyn, Lakeview, Wilmont, Palmer, Wildwood, Helena, and Forest Aves. in Rocky Dell Park. $50,000. E. Halpin, Jr., city engr.

O., Columbus—R. H. Simpson, city engr., drawing revised plans 4,600 ft. 30- to 48-in. concrete and 66,419 ft. 6- to 18-in. vitr. storm sewer in Weber Rd., for City. $100,000.

BIDS ASKED

Ga., College Park—See "Contracts Awarded."

Ill., Elgin—Apr. 18, by City and Pearce, Greeley & Hansen, engrs., 6 North Michigan Ave., Chicago, sewage treatment plant addition, 18 x 20 ft. concrete, brick building, gas boilers, sludge pumps, meters, miscellaneous electric equipment, three 13 x 78 x 12 tanks, one 12 x 48 x 16 secondary tank. $50,000.

Mo., St. Louis—Mar. 29, by Bd. P. Serv., City Hall, Rosedale Ave. Pub. Sewer and in Manchester Ave. Pub. Relief Sewer. $83,000. W. W. Horner, city engr. Noted Feb. 16.

N. J., Boonton—Apr. 2, by Bd. Sewerage, 714 Main St., constructing sewers, appurtenances for finishing abandoned contract. Clyde Potts, 30 Church St., New York, consult. engr.; adv. E. N.-R. Mar. 17.

N. Y., Dannemora—Apr. 5, at office Dpt. Correction, State Office Bldg., Albany, sewers, water lines staff house at Dannemora State Hospital; adv. E. N.-R. Mar. 17.

N. Y., Long Island City—Mar. 24, by G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., drain and appurtenances in Beach Channel Dr. from Municipal Court House at Beach 91st St. to existing sewer at Hammels Blvd., Rockaway Beach.

Wis., Granville—Mar. 21, by Town Bd., 12,411 ft. 8- to 18-in. vitr. clay sewer in Cedarburg, Hampton and Fond du Lac Rds. H. E. Webster, 216 West Water St., Milwaukee, engr.

CONTRACTS AWARDED

Ga., College Park—City, E. D. Barrett, mayor, City Hall, brick, rein.-con. sewage disposal plant, day labor. $30,000. Owner taking bids all materials. Wiedeman & Singleton, Candler Bldg., Atlanta, engrs.

Mass., Ludlow—Town, Bd. Selectmen, extending sewer lines, day labor. $56,000. Noted Feb. 25.

Mass., Quincy—Metropolitan Dist. Comn., 20 Somerset St., Boston, sewage pumping station, Newland St., Squantum, South Metropolitan Sewerage System, to M. Spinelli & Sons, 333 Washington St., Boston, for Commonwealth of Massachusetts. Est. $25,000. Noted Nov. 12.

Mich., Dearborn—M. A. Stevens, city clk., Sect. 55 River Rouge Interceptor Sewer, 60 in. monolithic concrete extending from Military Ave. to Morley Ave. along Morley Ave. to Brady St., and then to Michigan Ave., to C. Cornacchia, 17644 St. Louis Ave., Detroit, $70,000.

Mich., Flint—City Council, to P. Cappello, 12838 Wilshire Ave., Detroit, furnishing labor, material for constructing 48 in. monolithic concrete sewer, North Thread Creek Sanitary Trunk System, $42,100, Sect. A Upper Gilkey Creek Sanitary Trunk Sewer $17,900, Diversion Chamber, East Side Interceptor, $1,417. Grand total $61,417.

Mo., St. Louis—Bd. P. Serv., City Hall, rein.-con. sewer in open cut 12 ft. horseshoe in extension South Harlem Pub. Sewer to Ansbro &

See proposal advevrtising on page 67

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No Caulking

Sewers (Continued)

Maguire, 4833 Parker St., $15,612. Noted Feb. 2.

Mo., St. Louis—Bd. P. Serv., City Hall, 1,120 ft. 11½ ft. diam. brick sewer in tunnel, with manholes, lateral connections, for DeBalivere Ave. Pub. Sewer, to W. F. Riley & Sons, Inc., 110 North 7th St., $66,909. Est. $69,480.

N. Y., Brooklyn—H. Hesterberg, pres. Brooklyn Boro, Boro Hall, sewers in Rockaway Ave., in vicinity of Linden Blvd. and Ditmas Ave., to R. Vazzaro, Inc., 7101 11th Ave., $102,588.

O., Columbus—S. E. Ludwig, mayor-dir. Service, 3,465 ft. concrete sanitary sewer in Broad St., from Alum Creek to Stanbury Rd., Bexley, to C. & R. Constr. Co., 995 East 5th St., $17,673. Noted Feb. 11.

Tex., Dallas—City, c/o E. Goforth, secy., storm sewer using monolithic pipe in Dallas Branch Dist. 6, to McKenzie Constr. Co., West Commerce St., $35,669.

BRIDGES

PROPOSED WORK

Mo., Maplewood—St. Louis Co. and Missouri Pacific R.R. Co., E. A. Hadley, ch. engr., Missouri Pacific Bldg., St. Louis, preliminary plans rein.-con., steel bridge to replace present Missouri Pacific R.R. bridge over Laclede Station Rd. $36,300.

N. J., Manville—Somerset Co., Court House, Somerville, 3 span plate girder bridge, 30 ft. roadway, 6 ft. sidewalks over Raritan River, near here. $35,000. O. Smith, Somerville, co. engr.

N. Y., Fleetwood (Mt. Vernon P.O.)—Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, highway bridge over Bronx River and Bronx River Parkway. To exceed $25,000.

O., Cleveland—Soon takes bids additional work, bridge (nearing completion) Fulton Rd., incl. paving $45,000; street lighting $10,000; waterproofing deck $30,000; roadway into park $60,000.

Pa., Norristown—Bd. Comrs. Montgomery Co., Bridge 233 over Perkiomen Creek, Upper Hanover Twp. $20,000 — Bridge 231 over Perkiomen Creek, Upper Hanover Twp. west of East Greenville $20,000—Bridge 44 over Pennypack Creek, Abington Twp. $25,000—Bridge 27 over Pennypack Creek near Bryn Athyn $12,000 —Bridge 265 over Perkiomen Creek near Salford $40,000. Address County Engineer, Norristown.

B. C., Vancouver—Directors Burrard Inlet Tunnel & Bridge Co., North Vancouver, approved plans to make temporary repairs to damaged span of bridge over Burrard Inlet at Second Narrows, and afterwards replace span with bascule or lift span. Directors have reached agreement with Stuart Cameron & Co., Ltd., general contractors, 543 Granville St., to carry out the work. Total est. $750,000.

Ont., Westboro—A. E. Morris, clk. Nepean Twp., soon takes bids watermains. $11,500. Procter & Redfern, Excelsior Life Bldg., Toronto, engrs.

BIDS ASKED

California—Mar. 23, by C. H. Purcell, engr. State Hy. Comn., Sacramento, three 30 ft. spans rein.-con. girder bridge on concrete bents and abutments with wing walls over Walker River 24 mi. north of Bridgeport, Mono Co.

Ill., Chicago—Bd. Local Impvts., City Hall, W. A. Mulcahy, ch. engr. of Design, 139 North Clark St., bids about Apr. 1, 4 bridge operators' houses, Ogden Ave. and Chicago River. $200,000. Noted Jan. 1, 1931.

Ia., Grundy Center—See "Streets and Roads."

Kansas—Mar. 22, by State Hy. Comn., Wellington, Bridge 1, four 8 x 30 ft. multiple box spans, Kansas Project 55, Federal Aid Project 235-B, Bridge 1, three 8 x 30 ft. multiple box spans and Bridge 2, three 14 x 30 ft. multiple box spans, on same road, Sect. C, all Sumner Co. W. V. Buck, Topeka, hy. engr.

Kentucky—See "Streets and Roads."

Massachusetts—Mar. 24, by Norfolk and Plymouth Counties, at office Fay, Spofford & Thorndike, engrs., 44 School Sts., Boston, reconstructing rein.-con., steel span, deck girder bridge, over Weymouth Back River, between Weymouth and Hingham. $25,000 or more.

Okla., Mustang—Mar. 22, by State Hy. Dpt., Oklahoma City, 6 span 78 ft. rein.-con. bridge, Hy. 43, Canadian Co., near here. $31,000. C. L. Wilson, hy. engr.

Pennsylvania—See "Streets and Roads."

Tennessee—See "Streets and Roads."

Wis., Milwaukee—Mar. 23, by Dpt. P. Wks., City Hall, substructure for 3,415 ft. deck girder viaduct 64 ft. high with 52 ft. earth filled approaches, concrete piers, 60 ft. roadway, two 5 ft. sidewalks on 35th St. Noted Oct. 1.

CONTRACTS AWARDED

California — State Hy. Comn., Sacramento, eight 40 ft. span steel beam bridge, concrete deck on concrete bents and abutments, with wing walls on pile found. over San Antonio Creek, near Los Alamos, Santa Barbara Co., to Fredrickson & Watson, 354 Hobart St., Oakland, $34,260. Noted Feb. 11.

Florida—State Road Dpt., Tallahassee, bridge over Santa Fe River, Alachua and Columbia Counties, to J. Johnson, Lakeland, $22,084; bridges in Putnam and Flager Counties, to Powell Bros., Inc., Fort Lauderdale, $33,756. Noted Jan. 28.

Ill., La Salle—Illinois Central R.R. Co., 135 East 11th Pl., A. F. Blaess, ch. engr., bridge, incl. two piers, 83½ ft. high, on 30 x 50 ft. founds. over Illinois River, to Bates & Rogers Constr. Co., 111 West Washington St., $50,000.

Indiana—State Hy. Comn., Indianapolis one 52½ ft. rein.-con. arch bridge; one 12 ft. rein.-con. slab bridge, Contr. 466 Montgomery Co., to R. L. Schutt, 5818 East New York St., Indianapolis, $10,080; one 60 ft. span and one 25 ft. span rein.-con. arch bridges, Contr. 470 Banderburgh Co., to H. V. Hay, Boonville, $14,894. Noted Feb. 11.

Iowa—State Hy. Comn., Ames, bridges and culverts on Rd. 169, F.A.B. 117, Humboldt Co., to Paul Flower Co., Eagle Grove, $22,500—Rd. 14, F.A.B. 63, Lucas Co., to Duvall & McKinney, Logan, $6,345—Rd. 72, F.A.B. 343, Wright Co., to Hildebrand & Kraugh, Belmond, $8,360. Grand total $37,205. Noted Feb. 25.

Me., York—State Hy. Comn., hy. bridge, involving 7,730 lin.ft. creosoted piles, 33,000 ft. creosoted timber, 297,000 lb. structural steel, 850 cu.yd. concrete, to Kennebunk Constr. Corp., Waterville, $49,845. Noted Feb. 25.

Maryland—State Hy. Comn., Baltimore, timber bridge over Neal's Sound connecting Cobb Island with mainland, Contr. Ch-92-811, Charles Co., to Kiker & Yount, Reedsville, N. C., $15,390. Noted Feb. 18.

Massachusetts—Comrs. Dukes Co., Edgartown, new draw bridge, "Lagoon Bridge," Oak Bluffs and Tisbury, to W. G. Manter Co., Beach St., Vinyard Haven. Est. $25,000. Noted Feb. 25.

Michigan—H. W. Hagaman, div. engr. at office County Road Comn., 502 Eddy Bldg., Saginaw, R.Br. 1 of 73-23-14 Contrs. 2 and 3, 65 ft. span, 2 rein.-con. semi-gravity type abutments, 30 ft. roadway, two 5 ft. sidewalks, Saginaw Co., for State Hy. Comn., Lansing, Contr. 2, to Lackawanna Steel Constr. Corp., Walden Ave., Buffalo, N. Y., $10,341; Contr. 3, to Gosner & Flynn, 5800 Bingham St., Detroit, $47,238. Noted Feb. 4.

Michigan—H. G. Oakes, div. engr., Plymouth, RBr. 1 of 23-16-20, Contrs. 2 and 3, 60 ft. span, steel deck girder, with 2 counterfort type rein.-con. abutments, 30 ft. roadway, two 6 ft. sidewalks, over Grand River, Eaton Co., for State Hy. Comn., Lansing, Contr. 2, to McClintic-Marshall Corp., 1242 Book Bldg., Detroit, $5,729; Contr. 3, to Hudson & Granum, East Lansing, $29,242. Noted Feb. 18.

Mo., St. Louis—Missouri Pacific R.R. Co., E. A. Hadley, ch. engr., Missouri Pacific Bldg., Terminal Railroad Assn. of St. Louis, and City, repairing 3 span steel, timber bridge over tracks in Mill Creek Valley, 21st St., to Fruin-Colnon Contg. Co., 501 Merchants-Laclede Bldg. Est. $50,000.

Neb., Seward—Seward Co., 5 or more steel, timber bridges, incl. sub and superstructures and approaches to be built for period of one year to Diamond Eng. Co., 112 North Locust St., Grand Island; black gum creosoted lumber, creosoted yellow pine, full and standard sawn creosoted fir lumber, yellow pine piling, creosoted southern red cedar piling, and full and standard sawn untreated fir lumber, to Nebraska Bridge Supply & Lumber Co., 448 Peters Trust Bldg., Omaha, Neb.

Oklahoma—See "Streets and Roads."

Oklahoma—State Hy. Dpt., Oklahoma City, 5 span 112 ft. rein.-con. trestle bridge at Wynnewood, Garvin Co., to Nims & Frost, Hydro, $15,423 est. $25,000 3 span 240 ft. steel truss bridge on concrete piers at Aylesworth, Marshall Co., to J. W. Hopper, Ada, $19,138 est. $25,000 —7 span 136 ft. rein.-con. bridge at Pontotoc, Pontotoc Co., to W. L. James, Ada., $25,130 est. $27,000—2 span 280 ft. steel truss bridge on concrete piers at Connersville, Johnston Co., to W. R. Montgomery Cushing, $32,145 est. $36,000. Grand total $91,836.

Okla., Sulphur — State Hy. Dpt., Oklahoma City, two 36 ft. I-beam and one 80 ft. truss span bridge, Murray Co., to Muskogee Iron Wks., Muskogee, $20,127. Est. $25,000.

STREETS AND ROADS

BIDS ASKED

Ala., Anniston—See "Contracts Awarded."

California—Mar. 23, by C. H. Purcell, engr. State Hy. Comn., Sacramento, grading, asphaltic concrete surfacing 0.4 mi. in Willows, Glenn Co. —grading, concrete surfacing 4.8 mi. road between Newport Beach and Corona Des Mar, Orange Co.—grubbing 5.1 mi. right-of-way between Inspiration Point and Vine Hill, Santa Cruz Co.

California — Mar. 24, by R. E. Pierce, dist. engr. State Hy. Comn., Sacramento, fuel oil and asphaltic road oil surface treating as dust palliative 32.2 mi. road between Mountain Pass and Yosemite National Park, Tuolumne and Mariposa Counties.

Calif., Glendale—Mar. 24, by City Council, curbing, guttering, corrugated iron storm drain complete, 6 in. concrete paving 1,400 sq.ft., 6 in. asphaltic concrete paving 124,500 sq.ft. Verdugo Rd., from Canada Blvd. to La Drescenta Ave. To exceed $25,000. J. A. Albers, City Hall, engr.

Georgia—Mar. 23, by State Hy. Bd., Atlanta, surface treating 14.697 mi. Eastman-McRae Rd., Dodge Co., involving 49,200 gal. tar prime coat, 82,000 gal. asphalt and 4,100 tons slag aggregate.

Idaho—Mar. 24, by G. E. McKelvey, comr. P. Wks., Boise, grading, drainage structures 1.912 mi. North and South Hy. from Riggins north. F.A.P. 9-H and A. reopened, Idaho Co.

Ia., Grundy Center—Mar. 21, by Bd. Supervs. Grundy Co., clearing, grubbing, grading, drainage structures 8.5 mi. trunk road, 1 mi. local road, also constructing 7 concrete box culverts, 3 wood trestle bridges, re-erecting 50 ft. truss bridge with two 20 ft. approach spans.

Ia., Primghar — Mar. 22, by Bd. Supervs. O'Brien Co., grading 6 mi. county trunk road, 14.25 mi. local road, incl. 145,619 cu.yd. excav., 83,546 sta.yd. overhaul.

Ia., Toledo—Mar. 22, by Bd. Supervs. Tama Co., grading 5.05 mi. local road L-17, A and B, incl. 51,000 cu.yd. earthwork, 50,000 cu.yd. overhaul.

Kansas—Mar. 22, by State Hy. Comn., Wellington, grading, culverts 4.809 mi. Kansas Project 55, Federal Aid Project 235-B, and 1.988 mi. same road, Sect. C, both 30 ft., Sumner Co. W. V. Buck, Topeka, hy. engr.

Kansas—Mar. 24, by State Hy. Comn. Ellinwood, concrete surfacing 0.577 mi. U. S. Hy. 50-N, Federal Aid Project 331-G and H, 20 ft., Benton Co. W. V. Buck, Topeka, hy. engr.

Kansas—Mar. 25, by State Hy. Comn., Court House, Kingman, grading, drainage structures, culverts 7.513 mi. U. S. Hy. 166, Federal Aid Project 356-J, 30 ft., Cowley Co.—concrete surfacing 0.424 mi. U. S. Hy. 50-S, Federal Aid Project 357-D 20 ft.—grading, drainage structures, culverts, concrete surfacing 3.5 mi. U. S. Hy. 50-S, Federal Aid Project 357-C, 20 and 30 ft., both Harvey Co. W. V. Buck, Topeka, hy. engr.

Kansas—Mar. 25, by State Hy. Comn., Kingman **(K.P. means Kansas Project and F.A.P. Federal Aid Project)**, bituminous surface treating 10.736 mi. U. S. Hy. 77, F.A.P. 240-A—7.733 mi. same road, Sect. B, both Butler Co. —3.639 mi. U. S. Hy. 54, F.A.P. 275-A—4.665 mi. same road, F.A.P. 305-A—10.176 mi. same road, Sect. C, all Kiowa Co.—12.409 mi. U. S. Hy. 50N, F.A.P. 331-F, Rice Co.—9.081 mi. same road, F.A.P. 331-G, Barton Co.—3.289 mi. U. S. Hy. 166, F.A.P. 336-E—7.754 mi. same road, Sect. H—8.193 mi. same road, Sect. I, all Cowley Co.—3.325 mi. K.P. 96, F.A.P. 396-A—12.157 mi. same road, Sect. B, both Butler Co.—11.953 mi. K.P. 160, F.A.P. 411-B, Comanche Co.—2.14 mi. U. S. Hy. 54, K.P. 1250—9.3 mi. same road, K.P. 1323, both Kiowa Co.—2.629 mi. Rd. 96, K.P. 1322, Butler Co. W. V. Buck, Topeka, hy. engr.

Kansas—Mar. 25, by State Hy. Comn., Marion, bituminous material surfacing 4.427 mi. U. S. Hy. 77, Federal Aid Project 240-C, Marion Co. W. V. Buck, Topeka, hy. engr.

Kan., Wellington—Mar. 22, at office Clerk Sumner Co., grading, culverts 1.988 mi. 15-5, Federal Aid Project 235-C; 1.988 mi. 55-1, Federal Aid Project 235-B. G. T. Helvering, dir.

Kentucky — Apr. 13, by State Hy. Dpt., Frankfort, grading, drainage structures 10.8 mi. Princeton-Cerulean Rd., Caldwell and Trigg Counties—2.3 mi. Benton-Mayfield Rd., Marshall Co. —surfacing 10.9 mi. Flemingsburg-Carlisle Rd., Fleming Co.—grading, drainage structures, surfacing 12.1 mi. London-Somerset Rd., Laurel Co. —surfacing 5.8 mi. Carlisle-Flemingsburg Rd.—grading, drainage structures 3.1 mi. same road—sub-structure and concrete approach spans for bridge over Licking River on above road, all Nicholas Co.—furnishing, delivering, spreading 5,000 tons crushed limestone on 5.8 mi. Franklin-South Union Rd. beginning at Franklin extending south—5,000 tons on 5.8 mi. same road beginning at South Union and extending toward Franklin, both Simpson Co.

Ky., Frankfort—Mar. 23, by State Hy. Dpt., grading, drainage structures, surfacing 21.1 mi. Carrollton-Bratz Rd., Carrol and Henry Counties; grading, drainage structures 10.6 mi. Mt. Oliver-Kentontown-Claysville Rd., Robertson Co.

Maryland—Mar. 22, by State Roads Comn., Baltimore, G. C. Uhl, chn., gravel surfacing 2.06 mi. Contr. AA-123-82, Anne Arundel Co.—concrete paving 1.19 mi. Contr. B-242-44, Baltimore Co.—macadam paving and macadam resurfacing 1.72 mi. Contr. W-106-64, Washington Co.; adv. E. N.-R. Mar. 17.

Mass., Ludlow—See "Contracts Awarded."

Michigan—Mar. 23, by H. G. Oakes, div. engr., Plymouth, grading, necessary drainage structures 3.611 mi. FO13-27C-1, Calhoun Co., for State Hy. Comn., Lansing.

Michigan—Mar. 23, by H. G. Oakes, div. engr. Plymouth, widening grade, lengthening drainage structures 5.609 mi. FO12-18C-1 and MO-12-18C-2, Branch Co., for State Hy. Comn., Lansing.

O., Canton—Bd. Control bids about May 26, paving, probably asphalt, sewers in Dewalt Ave. N.W. from 6th St. N.W. to 12th St. $25,000; brick repaving 1 mi. Mahoning Rd. N.E., 30 ft. $85,111. J. Shisler, City Hall, engr.

Oklahoma—Mar. 22, by State Hy. Dpt., Oklahoma City, concrete slab surfacing 3 mi. U. S. Hy. 270 west of Bache, 20 ft., $60,000; 4 mi. same road east of McAlester, 20 ft. $75,000, both Pittsburgh Co. C. L. Wilson, hy. engr.

Pennsylvania—Mar. 31, by State Hy. Dpt., Harrisburg, grading, drainage structures, bridges, base course surfacing 114,051 sq.yd., Route 209, bituminous surface treated macadam surface course, modified broken stone or native stone Sect. 2, Carydon and Lafayette Twps., McKean Co.—grading, drainage structures, one course rein.-con. surfacing 36,310 sq.yd. Route 115, Sect. 8, Frankfort Bridge Twp., Hanover Twp., Washington and Beaver Counties—32 ft. rein.-con. beam bridge, 23 ft. roadway over Crooked Creek and 49.43 ft. rein.-con. beam bridge, 25½ ft. roadway, one 5 ft. sidewalk over Losey Creek, at Keeneyville, also grading approaches, Route 292, Middlebury Twp., Tioga Co.—dismantling 104 ft. through plate girder super-

Streets and Roads (Continued)

structure over Conneaut Creek near Albion, Route 85, Erie Co., transporting, reconstructing girders, shoes and 15 stringers, on all new substructure on piles, new rein.-con. floor and sidewalk, over Brokenstraw Creek, Route 200, Spring Creek Twp., Warren Co. S. S. Lewis, hy. engr.

Pennsylvania—Apr. 1, by State Hy. Dpt., Harrisburg, grading, drainage structures, bituminous surface treated macadam surfacing 2,976 sq.yd. also two 28 ft. span rein.-con. beam bridge, 23 ft. roadway over Toms Creek, Route 44, Liberty Twp., Adams Co.—grading, drainage structures, one course concrete surfacing 211 sq.yd., also one span 105 ft. pony truss bridge, 32 ft. roadway, two 5 ft. sidewalks over Moshannon Creek, Route 57, Osceola Mills Boro, Rush Twp., Center and Clearfield Counties—grading, drainage structures, bituminous macadam surface treated course, native stone or modified broken stone base course surfacing 76,237 sq.yd. Route 380, Sect. 2, Highland Twp., Elk Co.—61,375 sq.yd. Route 357, Sect. 2, Ringgold and Red Bank Twps., Jefferson and Armstrong Counties—54,697 sq.yd. Route 648, Sect. 3, Benton, Nicholson and Clinton Twps., Lackawanna and Wyoming Counties. S. S. Lewis, hy. engr.

Tennessee—Mar. 25, by State Dpt. Hys. & P. Wks., Nashville, paving 3.85 mi. State Hy. 29, between Daisy and Soddy, Hamilton Co.—constructing overhead bridge, approaches on State Hy. 34, between Jonesboro and Johnson City, Washington Co.—bridge over west fork Little Pigeon River, State Hy. 35 at Sieverville, Sevier Co.

Washington—Mar. 22, by A. J. Humes, dir. Hys., Olympia, grading, crushed stone surfacing 7,220 cu.yd. State Rd. 1, Deming to Welcome Grange Hall, Whatcom Co.—concrete paving 4.1 mi. State Rd. 2, Renton to Seattle, F.A.P. 142-H, King Co.—bituminous paving 20.2 mi. State Rd. 3, Kittitas Co.—4.2 mi. State Rd. 3, Walla Walla Co.—12.9 mi. State Rd. 7, Grant Co.—4 mi. State Rd. 2, Kittitas Co.—grading 31,500 cu.yd. State Rd. 9, Jefferson Co. S. J. Humes, dir. hys.

Washington—Mar. 29, by S. J. Humes, dir. Hys., concrete paving 8.5 mi. State Rd. 2, Fall City West, F.A.P. 181-B, King Co.—and 0.4 mi. State Rd. 3, Spokane to Rosalia Gaps, Spokane Co.

Washington—Apr. 1, by S. J. Humes, dir. P. Hys., Olympia, and G. W. Roberge, secy. Bd. P. Wks., grading, concrete sidewalks, sewers, watermains paving approaches to George Washington Memorial Bridge, incl. Winslow Pl., Phinney, West Green, and Green Lake Ways, Aurora, Linden, Whitman, Woodlawn Aves., North 46th, North 47th, North 50th, North 60th, North 62nd Sts., Seattle.

Wash., Seattle—Mar. 28, by King Co., Comrs., concrete paving 3.5 mi. Juanita-Kenmore Hy., $70,000; 2 mi. Lincoln Ave., $42 000; 1.66 mi. Renton-Three Tree Point Rd., $34,000; and grading, graveling 2 mi. Kummer Cut-off, $25,000. T. D. Hutn, co. engr.

Wash., Seattle—Bd. P. Wks. received no bids Feb. 26 due to anticipated difficulty in disposing of city bonds, bids paving, sewers, mains, Princeton Way. $42,000. Will readvertise. D. W. McMorris, city engr. Former bids rejected.

CONTRACTS AWARDED

Ala., Anniston—Concrete resurfacing Noble and 10th Sts., day labor under supervision. H. P. Harris, city engr.

Ark., Mena—City Council at office D. E. Dodd, secy., concrete paving state hy. through city, to Grady Garma, Rector Bldg., Little Rock, $50,321.

California — State Hy. Comn., Sacramento, grading, crushed gravel or stone surfacing 19.5 mi. road between Shavers Summit and Desert Center, Riverside Co., to Basich Bros., 20550 Normandie Ave., Torrence, $528,678. Noted Feb. 25.

California—State Hy. Comn., Sacramento, grading, drainage structures, asphaltic concrete surfacing 1.9 mi. state hy. in Fullerton Div. V11-Ora-2-F, Orange Co., to Oswald Bros., 366 East 58th St., Los Angeles, $89,672; clearing, grubbing, grading, drainage structures, concrete surfacing 0.8 mi. state hy. from Sorrento Creek to Del Mar Div. V11-S.D.-2-A, San Diego Co., to C. R. Butterfield, 1401 North Gaffey St., San Pedro, $66,218. Noted Feb. 18.

Calif., San Diego—Bd. Supervs. San Diego Co., grading, 2½ in. asphaltic concrete surfacing 139,669 sq.yd. Ramona-San Pasqual Hy., incl. 16,730 lin.ft. oil berms, 11,250 ft. barb wire fence, to Yglesias Bros., 1810 South 32nd St., $96,400.

Idaho—State Hy. Comn., Boise, grading, crushed graveling 9.535 mi. Jerome Co., to Robinson Constr. Co., Twin Falls, $74,920, est. $85,750—12.116 mi. Idaho Co., to F. H. DeAtley & Co., Lewiston, $27,937, est. $38,065—and 5.114 mi. Shoshone Co., to S. Orino, Realty Bldg., Spokane, Wash., $87,448, est. $105,940. Grand total $190,305. Noted Feb. 18.

Kentucky—State Hy. Comn., Frankfort, rein.-con. surfacing 3.09 mi. Louisville-Paducah Rd., U. S. Hy. 60, Federal Aid Project 203-AS, Meade and Hardin Counties, to Ellis & Kelly, Owensboro, $44,847. Noted Feb. 4.

Kentucky—State Hy. Comn., Frankfort, rein.-con. surfacing 3.412 mi. Horse Cave-Jackson Hy., U. S. Rd. 31-E, State Project 11-AS, Hart Co., to W. F. Robinson & Son & Waitman, 2315 Frederica St., Owensboro, $59,264. Noted Feb. 4.

Maryland—State Roads Comn., Baltimore, G. C. Uhl, chn., graveling 1.18 mi. hy. along Leonardtown-Glebe School Rd., St. Mary's Co., and 1.01 mi. hy. from approaches to Cobb Island Bridge running from Rock Point Rd. to Cobb Island, Charles Co., to Pembroke & Gasparovic, Park Hall, $14,332 and $10,079 respectively; 1.12 mi. Contr. Sm-89-84, St. Mary's Co., to Boatwright & Russell, Manassas, Va., $6,017. Grand total $30,428. Noted Feb. 18.

Maryland—State Roads Comn., Baltimore, concrete surfacing 1.25 mi. state hy. from Creagerstown towards Loys Station, Contr. F-184-54, Frederick Co., to Thomas, Bennett & Hunter, Westminster, $23,019; gravel surfacing 1.8 mi. state hy. from Port Tobacco-Hilltop Rd., Contr. Ch-109-82, Charles Co., to Dundalk Constr. Co., Dundalk, $23,932. Noted Feb. 11.

Md., Baltimore—Bd. Awards, sheet asphalt paving 8,100 sq.yd. streets lsited in Contr. 611, to National Paving & Contg. Co., Menlo Drive and W. M. R.R., $26,647. Noted Feb. 18.

Michigan—H. G. Oakes, div. engr., Plymouth, grading, drainage structures 0.434 mi. FO30-14C-1, Hillsdale and Lenawee Counties, for State Hy. Comn., Lansing, to Lewis & Frisinger Co., Ann Arbor, $18,296. Noted Feb. 11.

Michigan—J. T. Sharpensteen, div. engr., Escanaba, grading, shaping, drainage structures, gravel surfacing 5.179 mim. MO66-26C-1, Ontonagon Co., for State Hy. Comn., Lansing, to D. L. Norton, Ontonagon, $64,902. Noted Feb. 18.

Mississippi—State Hy. Comn., Jackson, clearing, grubbing, bridging, grading, 35,000 cu.yd. Laurel-Hattiesburg Rd., Federal Aid Project 70, Jones Co., to Pigford Bros., Meridian, $24,138. Noted Feb. 18.

O., Cleveland—Cuyahoga Co., sandstone curbing, grading, 3 in. sheet asphalt paving 15,800 sq.yd. Green Rd. 7, to Loesch & Green Constr. Co., 5400 Pearl Rd., $66,750. Est. $98,780. Noted Feb. 4.

Oklahoma—State Hy. Dpt., Oklahoma City, concrete slab surfacing 0.995 mi. Federal Aid Project 143-A, near Wynnewood, 20 ft., Garvin Co., and grading, drainage structures 0.995 mi. same road 32 ft., to Briscoe Constr. Co., Stillwater, $22,512 and $15,895 respectively est. $25,000 each—4.58 mi. State Aid Project 794, Sect. F north of Connersville, 32 ft., Johnson Co., to J. W. Hoffer, Ada, $15,839 est. $25,000—5 mi. same road, Sect. G, near Pontotoc, 32 ft., and 3.36 mi. same road, Sect. H north of Johnson Co. line, 32 ft., both Pontotoc Co., to Humphrey & Dobson, Empire Bldg., Oklahoma City, $44,566 and $26,908 respectively ests. $50,000 and $30,000 respectively. Grand total $125,720.

Oklahoma — State Hy. Dpt., Oklahoma City, **(F.A.P. means Federal Aid Project)**, to Pharoah & Co., Henryetta, grading, drainage structures 4.046 mi. F.A.P. 284-C Cotton Co. $6,370 est. $15,000; 7.902 mi. F.A.P. 278-C $24,854 est. $30,000; 7.38 mi. same road, Sect. D $35,458 est. $40,000, both Harmon Co.; 6.952 mi. F.A.P. 261-C $13,945 est. $25,000; 7 mi. same road Sect. A $16,635 est. $25,000, both Ellis Co.—to D. Sweeney, 614 West 11th St., Oklahoma City, 5.5 mi. F.A.P. 261-B Ellis Co. $17,969 est. $25,000—to Humphrey & Thompson, Oklahoma City, 5.317 mi. F.A.P. 284-D Cotton Co. $12,930 est. $25,000, all above roads 32 ft. wide—to Williams & Co., Empire Bldg., Oklahoma City, 72 ft. I-beam bridge near Vinson, Vinson Co. $21,382 est. $25,000. Grand total $149,543. Noted Mar. 3.

Utah—State Hy. Comn., Salt Lake City, grading, graveling 7.705 mi. Grand Canyon Hy., Garfield Co., to Clyde & Whiting, Springville, $77,104. Est. $96,430. Noted Feb. 18.

Wash., Yakima—Yakima Co., 18 ft. concrete paving 2.75 mi. road from Wapato west, to J. H. Collins & Co., Colville, $61,779. Noted Feb. 25.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

Kan., Independence—City Council preliminary plans series flood gates on Rock Creek as protection against flood waters. G. H. Hackmaster, Independence, engr.

Manitoba—Dpt. P. Wks., N. Desjardins, secy., Hunter Bldg., Ottawa, Ont., plans river improvements in Kississing River. $60,000. **Maturity in summer.**

CONTRACTS AWARDED

Ia., Clarinda—Page Co., constructing County Drain 26, incl. 33,263 cu.yd. excav., to C. W. Drew, 929 City Natl. Bank Bldg., Omaha, Neb. Noted Jan. 28.

Bond Elections

Coming Bond Elections

Bridge and Gas Distribution System — Hinton, W. Va., May, $30,000 and $70,000 respectively.

Electric Light and Power Plant — Marengo, Iowa, Mar. 28, A. Lindsay, Clk. $125,000.

Electric Light and Power Plant — Iron River, Mich., April, $75,000.

Bonds Voted

Waterworks—Ft. Collins, Colo., $14,000.

Schools — Fulton County (Atlanta), Ga., $700,000.

Bonds Defeated

Waterworks—Montpelier, Idaho, $80,000.

FEDERAL GOVERNMENT

PROPOSED WORK

Calif., San Diego—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans U. S. Post Office. Site selected.

Calif., San Francisco—POST OFFICE—Treas. Dpt. at office Sup. Archt., sketches by G. W. Kelham, 315 Montgomery St., 4 story, rein.-con. annex, 7th and Mission Sts. $750,000. Preliminary plans forwarded to Washington for approval. Noted July 2.

D. C., Wash.—DREDGE HALL—U. S. Eng. 1 wooden dredge hull for dredge "Dalecartia."

Ill., Joliet—WALLS, etc.—U. S. Eng., Chicago, plans masonry walls and sewers, incl. 17,500 cu.yd. common excav., 12,000 cu.yd. rock excav., 63,000 sq.ft. channeling, 4,800 lin.ft. drill holes, 200 bbl. cement for grout, 11,000 cu.yd. back fill, 22,000 cu.yd. concrete, 108,000 lb. reinforcing bars, 4,400 lb. steel, 9,800 lb. sheet steel piling, at Brandon Road Pool, Des Plaines River.

Ky., Camp Knox—THEATRE—U. S. Eng., theatre, other buildings. $60,000.

La., Shreveport—BARRACKS—Con. Q. M., Barksdale Field, barracks. $100,000.

Mich., Lansing—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by Bowd & Munson, Lansing, and A. Kahn, Inc., Marquette Bldg., Detroit, 2 story, basement, 135 x 225 ft., steel, concrete, stone, West Allegan St. $250,000.

Nev., Boulder City—SCHOOL—Bureau Reclamation, Denver, Colo., school. $45,000. R. F. Walter, Denver, Colo., ch. engr.

New York—JETTIES and DREDGING—U. S. Eng., Whitehall Bldg., New York, constructing jetties at East Rockaway Inlet to protect channel 12 ft. deep, 250 ft. wide. $700,000. Project authorized in Rivers and Harbors Act (1930) but will not proceed until New York City grants immunity from possible damage by erosion resulting from construction. City will consider this at hearing Apr. 6.

N. Y., Stapleton—HOSPITAL—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids in April or early in May, general contract 2 story, basement, brick, steel U. S. Marine Hospital, incl. main building, nurses' home, laundry and power house, 2 attendants buildings and officers quarters, Bay, Tompkins and Vanderbilt Sts. $2,500,000. K. M. Murchison and W. H. Gompert, 101 Park Ave., New York, archts. Tachau & Vought, 102 East 30th St., New York, assoc. archts. Noted Jan. 21.

N. D., Pembina—GARAGE—Treas. Dpt. at office Sup. Archt., Wash., D. C., soon takes bids 1 story, 40 x 80 ft. and 15 x 32 ft. garage, incl. 20 x 30 ft. workshop.

O., Chillicothe—KITCHEN, MESS HALL, etc.—Dpt. Justice, Wash. D. C., soon takes bids kitchen and mess hall, chapel and school at U. S. Industrial Reformatory. $400,000.

Ore., Portland—BOILERS—U. S. Eng., furnishing, installing 2 boilers and boiler equipment on U. S. Dredge "Col. P. S. Michie."

Pa., New Castle—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by W. G Eckles Co., 719 Lawrence Savings & Trust Bldg., 2 story, basement, limestone, granite U. S. Post Office, Market and Diamond Sts. $326,000.

Tenn., Memphis—HOSPITAL—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans approved by officials in Washington for 3 story hospital addition at U. S. Marine Hospital, California St. $175,000. Regan & Weller, Bank of Commerce Arcade, archts. Noted Sept. 17.

Tex., Fort Clark—BARRACKS—Con. Q. M., preliminary surveys 2 large barracks buildings. $200,000. Appropriation pending.

BIDS ASKED

Calif., Alameda—SWITCHBOARD—Mar. 22, by Pub. Rds., 461 Market St., San Francisco, furnishing, installing steel panel switchboard and two 100 kva. electrical transformers at Government Island.

Ill., Rockford—ELEVATOR—Mar. 31, by Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator at U. S. Post Office.

Ill. Wheaton—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about Apr. 7, 3 story U. S. Post Office, Wheaton Ave. and Wesley St. $150,000. Rebori & Wentworth, Inc., 221 North LaSalle St., Chicago, archts. J. A. Wetmore, Wash., D. C., acting superv. archt. Noted Nov. 26.

Ky., Lexington—POST OFFICE—Treas. Dpt., at office Sup. Archt., Wash. D. C., bids about May 1, general contract 4 story, basement, 128 x 170 ft., rein.-con., stone, Barr and Limestone Sts. $570,000. Churchill & Gillig, Lexington, archts. Noted June 11.

Ky., Louisville — HOSPITAL — Apr. 12, by Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing hospital building and remodeling hospital for nurses' home and attendants' quarters (except elevator) at U. S. Marine Hospital. Noted June 11.

Louisiana—DREDGING and DAM—Apr. 5, by U. S. Eng., Poland and Dauphine Sts., New Orleans, dredging 87,700 cu.yd. drainage canal along North Fork from Chooner Bayou to Intracoastal Waterway; constructing earth dam across North Fork in Vermillion Parish.

La., Baton Rouge—POST OFFICE—Apr. 5 by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office (except elevator); adv. E. N.-R. March 17. Noted Nov. 26.

La., New Orleans—QUARTERS, etc.—Apr. 8, by Treas. Dpt. at office Sup. Archt., Wash., D. C., (3rd contract) personnel quarters, garage, etc., at U. S. Marine Hospital; adv. E. N.-R. Mar. 17.

Federal Government Work (Continued)

La., Shreveport—DRAINAGE SYSTEM—Apr. 4, at office Con. Q. M., Barksdale Field, constructing drainage system for flying field at Barksdale Field; adv. E. N.-R. Mar. 17.

Me., Togus—HOSPITAL—Apr. 19, by Vet. Bu., Arlington Bldg., Wash., D. C., general contract 7 story, 45 x 320 ft. and 45 x 100 ft., brick, steel hospital. $750,000. Coombs & Harriman, 11 Lisbon St., Lewiston, archts.; adv. E. N.-R., March 17. Noted July 3, 1930.

Md., Baltimore — HOSPITAL — Apr. 15, by Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing (except elevators) main building, power house, garage, and laundry building at U. S. Marine Hospital; adv. E. N.-R. Mar. 17.

Mass., Boston—GOVERNORS, etc.—Mar. 22, by Supplies & Accounts, Navy Dpt., Wash., D. C., governors, pump and spare parts.

Mass., Gloucester—POST OFFICE—Mar. 23, by Treas. Dpt. at office Sup. Archt., Wash., D. C., 2 story, basement, brick, steel, on 605,500 ft. plot, Pleasant St., Dale Ave. and Franklin Sq. $266,500. W. T. Aldrich, 30 Newbury St., Boston, archt.* Noted Mar. 3.

Mass., Hull—RESERVATION BUILDING—Mar. 21, by Con. Q.M., Army Base, Boston, concrete reservation building, Bluff Rd. near Allerton Point.

Mich., Detroit — HOSPITAL — Apr. 8, by Treas. Dpt. at office Sup. Archt., Wash., D. C., new wing for U. S. Marine Hospital. Noted Feb. 18.

Minn., New Ulm—REMODELING, etc.—Mar. 30, by Treas. Dpt., at office Sup. Archt., Wash., D. C., remodeling enlarging U. S. Post Office.

Nev., Boulder City—HOUSES—Mar. 28, by Bureau Reclamation, Denver, Colo., thirty 3 room houses, frame. R. F. Walter, Denver, Colo., ch. engr.

N. H., Portsmouth—SHAFTS, etc.—Mar. 22, by Bureau Supplies & Accounts, Navy Dpt., Wash., D. C., shafts, propeller and thrust, nickel steel.

N. J., Princeton—POST OFFICE—Apr. 4, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted Nov. 19.

New York—DREDGING—Apr. 14, by U. S. Eng., Army Bldg., 39 Whitehall St., New York, 27,850 cu.yd. material other than ledge rock and removing 49,980 cu.yd. ledge rock in Hallets Point Reef, Ways Reef, and Wollsey Reef, Hell Gate, East River. Noted Mar. 3.

N. Y., Brooklyn—CABLE—Mar. 22, by Signal Supply Officer, Army Base, 38th St. and 1st St., cable.

N. Y., Port Chester—DREDGING—Mar. 29, by U. S. Eng., Army Bldg., New York, 138,930 cu.yd. place measurement other than ledge rock, in Port Chester Harbor; adv. E. N.-R. Mar. 17.

Ore., Marshfield—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about Apr. 1, general contract U. S. Post Office. $145,000. Johnson & Wallworth, United States Bank Bldg., Portland, archts. Noted Sept. 10.

Pa., Pittsburgh—LOCKS—Apr. 22, by U. S. Eng., Pittsburgh, constructing Montgomery Locks, Ohio River; adv. E. N.-R. Mar. 17.

R. I., Newport—RODS—Mar. 22, by Yards & Docks, Navy Dpt., Wash., D. C., $57,000 lb. brass naval special rods ⅞ in. round; 2,750 lb. special naval brass rods $\frac{11}{16}$ in. round; 18,000 lb. brass spinning rods ½ in. round.

Tex., El Paso—HEATING SYSTEM—Mar. 24, by Con. Q. M., water heating system in central heating plant, W. Beaumont General Hospital, incl. dismantling present pre-heated feed water tanks, relocating 2 feed water pumps, altering boiler for water heater, altering water tank, pipe work, excavation, etc.

Va., Quantico—DREDGING, etc.—Spec. 6792—Mar. 23, by Yards & Docks, Navy Dpt., Wash., D. C., dredging, filling, drains at Marine Barracks.

Vt., Beecher Falls—INSPECTION STATION—Apr. 6, by Treas. Dpt. at office Sup. Archt., Wash., D. C., 2 story, brick inspection station. $56,000. Noted Nov. 5.

Vt., Beecher Falls — POST OFFICE — Treas. Dpt. at office Sup. Archt. Wash., D. C., bids about Apr. 1, U. S. Post Office, 8,000 sq.ft. plot area. $56,000. J. A. Wetmore, Wash., D. C., acting superv. archt. Noted Oct. 8.

CONTRACTS AWARDED

Arizona—STEEL TOWERS, etc.—Dpt. Commerce, Wash., D. C., 21 beacons on high steel towers and 15 emergency landing fields with complete lighting equipment on 350 mi. airway between Kingman and Winslow, to W. C. Schmitt, Portland, Or.

Ark., Texarkana—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Gauger Constr. Co., 910 Fidelity Bldg., Memphis, Tenn., $558,333. Noted Dec. 17.

Calif., San Diego—CRANES—Spec. 6770—Yards & Docks, Navy Dpt., Wash., D. C., two 25 ton floating revolving cranes mounted on steel pontoons, one delivered to Navy Dpt., Mare Island, to R. W. Kaltenback Corp., Bedford, O., $155,850. Noted Jan. 21.

Conn., Manchester — POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., 1 story, basement, brick, steel, to Pieretti Bros., Centerbrook, $85,000. Noted Feb. 11.

Idaho, Pocatello—ELEVATOR—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator in U. S. Post Office, to Otis Elevator Co., 810 18th St. N.W., Wash., D. C., $6,229. Noted Feb. 18.

Idaho, Pocatello—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., extending, remodeling U. S. Post Office and Court House, to Tapager Constr. Co., Albert Lea, Minn. $151,572. Noted Feb. 11.

Ill., Ottawa—EXCAVATING, etc.—U. S. Eng., 1st Chicago Dist., 333 North Michigan Ave., Chicago, excavating, dredging 210,000 cu.yd. earth and 166,000 cu.yd. rock from Starved Rock Pool, Illinois Waterway, to Clark Dredging Co., 343 Southwest North River Dr., Miami, Fla., at $0.40 per cu.yd. and $1.78 per cu.yd. respectively, total $379,480. Noted Jan. 14.

La., New Orleans—LUMBER—U. S. Eng., Dauphine and Poland Sts., 1,306 pcs. creosoted pine lumber, to Gulf States Creosoting Co., United Fruit Bldg., $3,312. Noted Jan. 15 Daily.

Md., Westminster — POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Quaker City Masonry Contract Co., 65th and Allman Sts., Phila., Pa., $67,000. Noted Feb. 11.

Mass., Springfield—STEEL—Commanding Officer, Springfield Armory, 200,000 lb. hot rolled manganese steel, to Henry Disston & Sons, Unruh and Milnor Sts., Phila., Pa., at $0.0445 per lb., total $8,900. Noted Mar. 3.

Mich., Ann Arbor—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash. D. C., U. S. Post Office, to Rice Constr. Co., 40 North Dearborn St., Chicago, Ill., $49,990. Noted Feb. 4.

Mich., Ludington—POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing U. S. Post Office, to Hanson Bros., 127 North Dearborn St., Chicago, Ill., $60,847. Noted Feb. 4.

O., Zanesville—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., extending, remodeling U. S. Post Office, to Zeiher & Mill, Sandusky, $77,750. Noted Dec. 24.

Pa., Aspinwall—HOSPITAL—Vet. Bu., Arlington Bldg., Wash., D. C., 4½ story, basement, 138 x 140 ft. brick, tile, rein.-con. infirmary, Delafield Rd., to H. B. Ryan Co., 500 North Dearborn St., Chicago, Ill., $280,000. Noted Feb. 4.

Pa., Tamaqua—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Conneen Constr. Co., 770 Schuylkill Ave., Phila., $74,472. Noted Feb. 18.

Tenn., Memphis—BOOMS—U. S. Eng., McCall Bldg., 155 ft. aluminum and steel dragline boom, to St. Louis Structural Steel Co., East St. Louis, Ill., $5,800. Rejected bids Mar. 1, 1 steel boom. Noted Feb. 25.

Tex. Galveston—HOSPITAL—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Marine Hospital, to James McHugh Sons, 840 West 70th St., Chicago, Ill., $290,000. Noted Nov. 5.

Tex., Galveston—IMMIGRATION STATION—Treas. Dpt. at office Sup. Archt., Wash., D. C., 3 story, limestone, brick, tile, to J. McHugh Sons, 840 West 70th St., Chicago, Ill. Est. $375,000. Noted Feb. 11.

RAILWAYS

PROPOSED WORK

Oregon—C. K. Spaulding Logging Co., Salem, preparing plans 7 mi. railroad, from Falls City into 250,000,000 ft. of timber in Salem. $75,000.

CONTRACTS AWARDED

California—Union Pacific Ry. Co., 65 Market St., San Francisco, 8 mi. railway cut-off from Salt Lake Line along Cherry St. from north of North Long Beach to Dominquez Viaduct, permitting removal of tracks along Ocean Blvd. and California Ave., Long Beach, to Merritt-Chapman & Scott Corp., 720 Wilmington-Redondo Rd., San Pedro. Est. $1,500,000.

SUBWAYS AND TUNNELS

PROPOSED WORK

Mass., Boston—City, Hospital Dpt., soon takes bids 2 concrete tunnels under Albany St. to connect with main hospital building of City Hospital. $46,000. J. H. Ritchie Associates, 250 Stuart St., archts. and engrs. Noted Feb. 4.

N. Y., New York—S. Levy, pres. Manhattan Boro, Municipal Bldg., preliminary plans and reports by H. H. Smith, ch. engr. Bd. Estimate & Apportionment, for tunnel by-pass to relieve congestion in Queens Boro Bridge area, 2nd Ave. from 56th to 62nd Sts. To be constructed when 2nd Ave. subway proceeds.

New York—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, has revised proposed subway program consisting of 67.93 mi. for submission to Bd. Estimate. No construction to be undertaken for at least one year. Noted Nov. 19.

GRADE CROSSINGS

PROPOSED WORK

N. Y., Elmira — Delaware, Lackawanna & Western R.R. Co., G. J. Ray, ch. engr., Hoboken, N. J., eliminating grade crossing at Madison Ave., Lake and Dickenson Sts.; East 5th St.; Oak St.; East Ave.; Clinton St.; Sullivan St.; East Church St.; and John St. $1,775 000. Pub. Serv. Comn. approved general plans and cost for same.

N. Y., Canton—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, eliminating Eddy and Sullivan Grade Crossings. To exceed $25,000. Pub. Serv. Comn. refused to reconsider orders requiring elimination of crossings.

N. Y., Hastings-on-the-Hudson—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, grade crossing, Jackson Ave. Pub. Serv. Comn. directed land rights and easements be acquired.

N. Y., Mount Vernon—City Planning Bd., closing and bridging over New York, New Haven & Hartford R.R. tracks, 3rd to 6th Aves. $350,000. G. A. Bagge, 7 West 44th St., engr. and member of City Planning Bd. Project requires agreement between city and railroad on which negotiations are in progress.

N. Y., Tioga—Lehigh Valley R.R. Co., G. T. Hand, ch. engr. 143 Liberty St., New York, and Erie R.R. Co., R. C. Falconer, ch. engr., Midland Bank Bldg., Cleveland, O., plans alteration to existing grade crossing. To exceed $25,000. Pub. Serv. Comn. refused to reconsider order to undertake this work.

Tex., Dallas—City, c/o J. W. Everman, Dpt. P. Utilities, Missouri-Kansas & Texas R.R., and Cotton Belt Ry. Co., subsidiary St. Louis Southwestern R.R., W. S. Hanley, Tyler, ch. engr., and Rock Island Railroads, soon take bids steel, concrete rein.-con. underpass, approaches, Lamar St. $325,000. Noted Dec. 17.

BIDS ASKED

Tennessee—See "Streets and Roads."

Wisconsin—Mar. 22, by State Hy. Comn. and Unemployment Comn., Madison, constructing West Camp Douglas Overhead, State Trunk Hy. 94, S.A.P. 4624; North Camp Douglas Overhead, Hy. 12 and 16, S.A.P. 4625 (325-E), both Juneau Co.; Schultz Overhead (approaches) U. S. Hy. 16, S.A.P. Project 1418, Columbia Co.

DAMS

BIDS ASKED

Pa., Frackville — Mar. 28, by Pottsville Water Co., Pottsville, dam near here. $125,000. Private plans.

BIDS RECEIVED

Calif., Pasadena—B. Chamberlain, city clk., City Hall, Mar. 1, Pine Canyon Dam and appurtenant works in San Gabriel Canyon, incl. gravity section dam, 240 ft. high, 750 ft. crest length (combined bid) from Bent Bros., 418 South Pecan St., Los Angeles; Winston Bros., 1464 Northwest Bank Bldg., Minneapolis, Minn., and W. C. Crowell, 1201 East California St., $2,407,312. Noted Feb. 4 under "Waterworks."

PIERS AND WHARVES

CONTRACTS AWARDED

Ore., Portland — DOCKS — City Council, pile bulkhead, concrete slab floor, Pier 1, Terminal 4, to Jacobsen Constr. Co., McKay Bldg., $26,830.

Ont., Windsor—DOCK—Pere Marquette Ry. Co., H. A. Cassil, ch. engr., General Motors Bldg., Detroit, Mich., new rein.-con. slip-dock to facilitate handling of car ferry between Windsor and Detroit. $150,000. Owner builds.

AIRPORTS

PROPOSED WORK

Tenn., Memphis—Mid-South Airways, V. C. Omile, pres., preliminary plans 60 x 230 ft. concrete, brick hangar at municipal airport, $35,000. A. F. Hansen, Shrine Bldg., archt.

GRAIN ELEVATORS

PROPOSED WORK

Mo., Kansas City—GRAIN ELEVATOR—Missouri Kansas Elevator Co., Railway Exch. Bldg., St. Louis, and Missouri Pacific R.R. Co., E. A. Hadley, ch. engr., Missouri Pacific Bldg., St. Louis, rebuilding 8 story grain elevator, rein.-con., $150,000. E. Ahloskog, 407 South Dearborn St., Chicago, Ill., engr.

BIDS ASKED

N. Y., Albany—GRAIN ELEVATORS—Apr. 14, by Albany Port Dist. Comn., 2,000,000 bu. grain elevator $850,000 allocated for project. Bidders will submit own plans and specifications.

POWER AND LIGHTING

PROPOSED WORK

Minn., Rochester—City completed reports gas distribution system. $300,000. No action expected until spring. Burns & McDonnell Eng. Co., 400 Interstate Bldg., Kansas City, Mo., engrs.

New York — Niagara-Hudson Power Co., 15 Broad St., New York, expending $19,301,000 during 1932 to improve and extend its facilities, incl. electric distribution lines, $7,625,000; improving and expanding electric transmission lines $5,706,000; extending and improving gas system $2,222,000; building construction $1,933,000; system hydro stations $1,000,000; and steam generating plants $815,000.

N. Y. Perinton—Fairport Municipal Comn., Fairport, electric distribution lines. Applied to Pub. Serv. Comn. for permit.

O., Cleveland—See "Bridges."

BIDS ASKED

Arkansas—See "Contracts Awarded."

Maryland—Mar. 22, by State Roads Comn., Baltimore, G. C. Uhl, chn., all electrical work necessary for complete electric lighting and power system for bridge over Pocomoke River, Snow Hill, Contr. Wo-69-1-17, Worcester Co.; adv. E. N.-R. Mar. 17.

CONTRACTS AWARDED

Arkansas—Southeast Arkansas Telephone & Power Co., Star City, L. C. Sprague, supt., will construct 5 mi. transmission line from Furth to Meroney, own forces. Private plans.

Ill., Flora—See "Waterworks."

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Power and Lighting (Continued)

Nebraska—Northern Natural Gas System, 1515 Natl. Bank Bldg., Omaha, 16.1 mi. 18 in. pipe line from Plattsmouth to Omaha, to Fredell Constr. Co., Continental Oil Bldg., Denver, Colo., 6, 8 and 10 in. distribution lines in various parts Omaha. Owner will construct.

PARKS AND SPORTS

PROPOSED WORK

Conn., Hartford—City, Bd. Park Comrs., G. H. Hollister, supt., indoor swimming pool. To exceed $25,000.

Conn., Stamford—Shippan Beach Club, C. H. Abbott, Main St., swimming pool and 2 beach houses. $75,000. S. Constable, 227 Bedford St., engr.

Ill., Chicago—Sanaquant Assn., H. O. Moore, pres., 190 North State St., sketches by E. F. Janssen, 740 Rush St., 1 story, 100 x 200 ft. stone, steel swimming pool, 30 x 50 ft. wading pool, shooting gallery, sterilizing and circulating system, under water lighting system, at Western Ave. and Berteau St. $500,000. **Maturity in summer.**

Mass., Boston—City, concrete, wood stadium, at World War Memorial Park, East Boston. $100,000.

Mo., Joplin—Park Bd., F. M. Weeks, secy., revising plans 57 x 195 ft. rein.-con. swimming pool, Schifferdecker Park. Former bids rejected. J. B. Hodgdon, city engr. Noted **Feb. 18.**

N. J., Laurenceville—International Automobile Speedway Corp., c/o Vara Eng. & Contg. Co., engrs., 50 Broad St., New York, sketches 2 story, basement, brick, steel club house, restaurant, garage and grandstand, 3 mi. race track. $150,000. **Maturity in June or later.**

N. J., Pitman — Hillcrest Memorial Park, Delsea Dr. north of here. $250,000. Green & MacNelly, Camden, archts.

N. J., Sandy Hook—New Jersey State Park Comn., State House, Trenton, recommends project to legislature for adoption beach development, bath houses, parking facilities, Atlantic Ocean side peninsula of 2¼ mi. tract.

N. J., Sea Girt—New Jersey State Park Comn., Trenton, recommends converting 120 acre militia encampment into beach and park. Project before legislation for adoption.

N. Y., Hillside—Dpt. Parks, W. R. Herrick, pres. Park Bd., Arsenal Bldg., Central Park, New York, purchased 1 acre site and added to present Hillside Park, both new and old property to be improved when funds are available. To exceed $25,000.

N. Y., Long Island City—Dpt. Parks, W. R. Herrick, pres. Park Bd., Arsenal Bldg., Central Park, New York, park and playground improvements on 1 block site east of Cedar of Lebanon St. $57,000. Site selected, purchase to be completed and site improved when funds are available.

N. Y., New York—Dpt. Parks W. R. Herrick, pres. Park Bd., Arsenal Bldg., Central Park, improving 8½ acre site for park and playground development, Pelham Bay Park. $162,000.

N. Y., Rochester—City plans cloistered gateway, incl. chapel, office and connecting cloister at White Haven Memorial Park, Marsh Rd. $250,000. Dryer & Dryer, Fitch Bldg., archts.

N. Y., St. Albans—Dpt. Parks, W. R. Herrick, pres. Park Bd., Arsenal Bldg., Central Park, New York, plans purchasing 1 block site for park, 196th St. and 113th Ave. $40,000. Site selected, purchase to be completed and site improved when funds are available.

N. Y., Tottenville (sta. Staten Island)—Park Dpt., W. R. Herrick, pres. Park Bd., Arsenal Bldg., Central Park, New York, purchased site and plans improving park and playground, Richmond Valley Gardens, near here. To exceed $25,000.

Okla., Oklahoma City—City, M. Peshek, clk., final plans made new wading pool in Glen Ellen Park. $18,000. L. M. Bush, City Hall, engr.

BIDS ASKED

N. Y., Rockaway—See "Contracts Awarded."

CONTRACTS AWARDED

Ill., Aurora—City Playgrounds Com., City Hall, general contract 30 x 90 ft. oval swimming pool, round wading pool, 30 ft. diam., tiling and septic tank, to W. H. Graham, Graham Bldg. Est. $30,000.

N. Y., New York—City of New York Bi-Centennial Comn., Commodore Hotel, 1 story, mezzanine building for George Washingtno Bi-Centennial in Bryant Park, 42nd St. and 5th Ave., to Sears Roebuck, Inc., Port Newark, N. J. Est. $85,000.

N. Y., Rockaway — Oceanedge Developers, 35-11 Edgemere Ave., Edgemere, 186 x 220 ft. bath houses, Sprayview Ave. and Beach 35th St., Edgemere, day labor.

Va., Newport News—See "Clubs."

HEATING AND VENTILATING

BIDS ASKED

N. Y., New York—Mar. 23, by W. C. Martin, archt. and sup. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, completing and finishing original contract which has been abandoned for heating, ventilating apparatus for Walton High School, on Reservoir and Jerome Aves., north of West 195th St., for Bd. Educ., 500 Park Ave.

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UNCLASSIFIED

PROPOSED WORK

Conn., Bridgeport—STORAGE TANK, etc.—Kisco Coal Co., F. J. Kisco, pres., 536 Waterview Ave., 200,000 gal. gasoline storage tank and 100,000 gal. fuel oil tank. Private plans.

Conn., Meriden—BUS TERMINAL, etc.—Corporation forming, L. Sobeleski, pres., purchased South Broad St. tract, and plan developing same for 1 story, 40 x 80 ft., brick, steel bus terminal, dancing pavilion, camping grounds, service dormitory, restaurant, $100,000. J. Novak, 192 South Colony St., engr.

Conn., Meriden—LANDSCAPING, etc.—State, State School for Boys, preparing plans and soon takes bids landscaping, grading, etc., at State School for Boys. $25,000. W. Arnold, 487 Main St., Hartford, engr.

Kan., Manhattan — BARN — Kansas State Agricultural College and State Bd. Administration, F. C. Jorgensen, bus. mgr., Topeka, plans by J. W. Radotinsky, State House, Topeka, 1 story, 114 x 215 ft., rein.-con., steel barn, also 4 concrete or tile silos. $50,000.

La., New Orleans—CULVERTS—Sewerage & Water Bd., 526 Carondelet St. preparing plans 2 rein.-con. culverts, one at intersection Mistletoe and South Claiborne Aves., other at intersection Palmer and Claiborne Aves., also necessary earth fill.

Mass., Boston — TUNNEL STATION — City, Transit Dpt., 1 Beacon St., tunnel station, Harrison Ave. $25,000 or more.

Mass., Worcester—BUS TERMINAL—Central Supply Co., I. B. Smith, pres. and treas., survey of site made by Stone & Webster Eng. Corp., engrs., 49 Federal St., Boston, bus terminal, 40 Foster St. $25,000 or more.

Nebraska—CULVERTS—Douglas Co., concrete and steel culverts. $122,500. L. Adams, Court House, co. engr.

Nebraska — GAS PIPE LINE — Northern Natural Gas System, 1515 City Natl. Bldg., Omaha, preparing plans 14 mi. 4 in. gas pipe line from David City to Schuyler and 14 mi. 8 in. line from Schuyler to Columbus, also distribution system at Schuyler. Private plans.

Okla., Tulsa — CEMETERY, GREENHOUSE, etc.—See "Unclassified Buildings."

Tex., Kilgore — CASINGHEAD GASOLINE PLANT—Stock Co., c/o G. A. Griffin, supt., 15,000 gal. daily capacity casinghead gasoline plant. $75,000. Private plans. Equipment purchased from H. H. Adams, Santa Ana.

Utah, Salt Lake City — RADIO STATION — K.S.L. Radio Station, 35 Richards St., soon takes bids radio broadcasting station. $200,000. Noted Oct. 29.

Va., Blacksburg—HEALTH RESORT—Yellow Sulphur Springs Recreation Sanatorium, Inc., c/o W. L. Crumpacker, modernizing health resort, incl. rebuilding, enlarging main building, also additional cottages, other buildings, golf course, Yellow Sulphur Springs, near here.

Man., Winnipeg—ASPHALT PLANT—City, M. Peterson, clk., City Hall, asphalt plant. $30,000. W. P. Brereton, 223 James St., engr.

Ont., Ottawa—ASPHALT PLANT—F. C. Askwith, comr. P. Wks., bids early in April, asphalt plant. $40,000.

Que. Hull—OIL STORAGE PLANT—British American Oil Co. Ltd., 6590 Durocher Ave., Montreal, establishing gasoline and oil storage plant and installing two 20,000, five 12,000 and two 10,000 bbl. capacity storage tanks. $200,000.

BIDS ASKED

Ill., Albion—CULVERTS—Mar. 23, by Bd. Comrs. Edwards Co., 6 rein.-con. box culverts, Sect. 1B-M.F.T., 7 rein.-con. box culverts, Sect. 2B-M.F.T. G. H. Baker, c/o State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, engr. county roads.

Neb., Omaha—GAS PURIFIER—Mar. 21, by C. D. Robinson, engr., 18th and Harney Sts., gas purifier to eliminate sulphuric impurities for 20,000,000 cu.ft. gas per day, for Metropolitan Utilities Dist., 18th and Harney Sts. $62,000.

N. C., Charlotte—RADIO BROADCASTING—Station W.B.T., Charlotte ,controlled by Columbia Broadcasting Co., 485 Main St., New York, bids about Apr. 15 (from Charlotte contractors) radio broadcasting, incl. transmitter building, coupling building, plumbing, heating, lighting and sewage disposal. Lockwood Greene Engineers, Inc., 100 East 42nd St., New York, engrs.

O., Columbus—ENGINEERING EXPERIMENT STATION—Mar. 28, by Dpt. Hys., Ohio-Hartman Bldg., T. S. Brindle, dir. P. Wks., 4 story, basement, 100 x 130 ft., concrete, brick, stone addition, at Ohio State University campus. $100,000. H. R. Rikert, Architects Office, Ohio State University, archt.

CONTRACTS AWARDED

Mass., Harvard—OBSERVATION STATION—Harvard University, H. Shapley, dir. University Observatory, Cambridge, 1 story, basement, 25 x 60 ft., brick, concrete astronomical observation station, plain found. ,Oak Ridge, to Harvard Maintenance Dpt., R. V. Haggard, in charge. Est. $25,000-$30,000.

Mass., Quincy—OIL TANK TERMINAL—New England Terminal Co., 46 Bates Ave., oil tank terminal, incl. 32 storage tanks, garage, office building, pump house, wharf and sidings, Montclair Sect., Quincy side of Neponset River, to G. H. Dyson, engr., 80 Boylston St., Boston, by separate contracts. Est. $2,000,000. Noted Dec. 3, under "Contracts Awarded."

Okla., Picher — CONCENTRATION MILL — Eagle Picher Lead Co., steel, concrete work for concentration mill, to Tri-State Contractors, Picher and Tulsa, to exceed $100,000. Noted June 11.

Pa., Pittsburgh—GREASING PLANT—Standard Oil Co. of Pennsylvania, Peoples Gas Bldg., W. E. Black, in charge, 1 story, brick, tile greasing plant, 6400 Pennsylvania Ave., to Nicola Building Co., 6388 Pennsylvania Ave.

MATERIALS

PROPOSED WORK

PIPE—**Albert Lea, Minn.**—City, A. E. Carlson, clk., purchasing 2 or 3 carloads 6 in. c.i. pipe. R. L. Van Nooker, city engr.

ROAD OIL — **Austin, Minn.** — City, G. L. Brown, engr., bids about April, 150,000 gal. road oil.

BIDS ASKED

CABLE—**Beverly Hills, Calif.**—Mar. 29, by B. J. Firminger, city clk., 50,000 ft. No. 8 lead-covered cable.

CAST IRON PIPE—**Glendale, Calif.**—G. E. Chapman, city clk., taking bids 20,000 ft. 6 in. and 15,000 ft. 8 in. Class 250 c.i. pipe.

PLANK and CULVERT PIPE—**Algona, Ia.**—Mar. 24, by Bd. Supervs. Kossuth Co., 600,000 bd.ft. fir bridge plank, 2 carloads 15 in. concrete or corrugated culverts.

PIPE, etc.—**Mt. Pleasant, Ia.**—Mar. 24, by Bd. Supervs. Henry Co., 1,400 lin.ft. corrugated metal and 800 lin.ft. concrete pipe, 30,000 gal. gasoline, 1,000 gal. lubricating oil, 1,500 lb. grease.

LUMBER, STEEL, etc.—**Winterset, Ia.**—Mar. 23, by Bd. Supervs. Madison Co., 212,584 ft. b.m. lumber, 3,130 lin.ft. 15- to 24-in. corrugated pipe, 86,000 lb. reinforcing steel.

BRASS PIPE, BRASS FITTINGS, etc. — **Swampscott, Mass.**—Mar. 24, by Water Dpt., Town Hall, furnishing brass pipe, brass fittings, etc., as desired for delivery in future as desired.

PAVING BRICK—**Minneapolis, Minn.**—Mar. 21, by F. S. Gram, city purch. agt., 125,000 vitr. paving brick for Sewer Dpt. N. W. Elsberg, city engr.

ASPHALTIC MACADAM, etc. — **St. George, N. Y.**—Mar. 23, by J. A. Lynch, pres. Richmond Boro, Boro Hall, 300,000 gal. asphaltic macadam binder, hot application; 85,000 gal. asphaltic cement; 1,500 tons bituminous concrete; 500 tons bituminous concrete; 50,000 gal. Grade B fuel oil; 1,200 cu.yd. concrete and paving sand; 2,000 cu.yd. trap rock screenings; 2,000 cu.yd. 1½ in. broken stone; 700 cu.yd. ¾ in. broken stone chips; 4,500 cu.yd. 1½ in. broken stone; 1,500 cu.yd. ¾ in. broken stone chips.

ROAD OIL, COLD PATCH, etc.—**Cleveland, O.**—Mar. 24, by City, 350,000 gal. road oil, 3,500 tons cold patch mixed, 17,500 gal. asphalt crack filler, 1,500 tons asphalt cement and 2,000 cu.yd. ready mixed concrete. Former bids rejected.

SEWER PIPE, etc.—**West View, Pa.**—Mar. 22, by C. A. McClain, secy., Boro Hall, 858 ft. 18 in. D. S. terra cotta sewer pipe, 2 and 3 ft. lengths, sixteen 18 x 6 in. Ys, 50 ft. 12 in. SS terra cotta sewer pipe, 2 and 3 ft. lengths, 4 manhole castings, 4,000 common red brick, 5 tons sand, 10 bbl. cement, 1 ton sewer joint compound, 30 manhole steps, 200 lb. untarred jute, for West View and Ross Twps. Webster Hinman, Berger Bldg., Pittsburgh, engr. Ross Twp. H. P. McKown, West View, engr. West View Twp.

LIMESTONE, GRAVEL, CEMENT, etc. — **Memphis, Tenn.**—Mar. 21, by Bd. Comrs. Shelby Co., annual supply of crushed limestone, road gravel, concrete and binder gravel, sand, cement, steel, culvert pipes, nails, untreated and preservative treated lumber and piling, bituminous material. E. W. Hale, chn.

PIPE—**Morgan, Utah**—City purchasing in open market 3,812 ft. 6 in. pipe. $6,000. Pipe to be installed as unemployment relief program. W. Stromberg, water supt.

CONTRACTS AWARDED

CABLE—**Los Angeles, Calif.**—City Council, T. Oughton, purch. agt., City Hall, furnishing lead covered cable under Spec. 2707, to General Electric Supply Co., 385 East 2nd St., $3,192; under Spec. 2745, to Okonite-Callender Cable Co., 110 North Alameda St., $27,527; furnishing penstock and appurtenances under Spec. 2574, to Consolidated Steel Corp., 1200 North Main St., $32,000. Grand total $62,719.

CAST IRON PIPE—**San Francisco, Calif.**—City Council, 50,000 ft. 6 in. and 40,000 ft. 8 in. c.i. pipe, to U. S. Pipe & Fdry. Co., Monadnock Bldg., at $0.3625 and $0.5075 respectively.

STEEL RAILS—**San Francisco, Calif.**—Southern Pacific R.R. Co., 65 Market St., 13,792 tons 110 and 130 lb. steel rails for railroad work between El Paso, Tex., and California points and between Ogden, Utah and California points, to Colorado Fuel & Iron Wks., Pueblo, Colo., $620,000. Will be given order later for spikes, tie plates and bolts.

LUMBER—**Albia, Ia.**—Monroe Co., I. Hope, aud., 145,576 ft. fir lumber, 22,700 ft. creosoted fir lumber and 2,660 ft. creosoted piling, to Hawkeye Lumber Co., Oskaloosa. Noted Jan. 28.

LUMBER, etc.—**Dennison, Ia.**—Crawford Co., P. J. Portz, aud., 264,000 ft. b.m. full sawn Class A Douglas fir and 43,600 ft. b.m. 10 lb.

Materials (Continued)

pressure treated Class A Douglas fir lumber and 11,150 ft. 10 lb. pressure treated yellow pine piling, to Nebraska Bridge Supply & Lumber Co., 448 Peters Trust Bldg., Omaha, Neb. Noted Feb. 11.

BRIDGE LUMBER, etc.—**Guthrie Center, Ia.**—Guthrie Co., O. D. Knapp, aud., 11 cars bridge lumber, 2 cars piling, 1 car posts, to S. Hanson Lumber Co., and Green Bay Lumber Co., 703 Fleming Bldg., Des Moines, $10,310 and $3,385 respectively; 1 car corrugated culvert pipe, to Iowa Culvert & Pipe Co., Des Moines, $1,565; concrete pipe, to Wilson Concrete Co., Red Oak, $7,145; 300 gal. steel bridge paint, to Straw Products Chemical Co., St. Paul, Minn., and to Lucas Lumber Co., 605 North Michigan Ave., Chicago, Ill., $478 and $102 respectively. Grand total $22,985. Noted Jan. 11.

LUMBER, PIPE, PILING, etc.—**Independence, Ia.**—Buchanan Co., C. D. Raffaut, aud., 60,000 ft. creosoted fir, 90,000 ft. standard sawn fir bridge plank, 1,200 ft. creosoted piling, to West Side Lumber Co., Independence, $6,194; corrugated culvert pipe, to Iowa Culvert Pipe Co., Des Moines, $2,864. Noted Jan. 11.

CULVERT PIPE—**Nevada, Ia.**—Story Co., B. Dickey, aud., culvert pipe, to Wilson Concrete Co., Red Oak, $1,437, and to Iowa Culvert Pipe Co., Des Moines, $2,761. Noted Feb. 4.

CULVERT PIPE, etc.—**Onawa, Ia.**—Monona Co., W. R. Jones, aud., 4 cars corrugated culvert pipe, 3 tons spikes, to Klauer Mfg. Co., Dubuque, $3,930.

LUMBER, etc.—**Rock Rapids, Ia.**—Lyon Co., 10,000 ft. Southern pine piling, 114,500 ft. b.m. treated Southern pine lumber and 102,848 ft. Douglas fir lumber, to Nebraska Bridge Supply & Lumber Co., 448 Peters Trust Bldg., Omaha, Neb., $15,928. Noted Jan. 28.

LUMBER, PILING, etc.—**Sioux City, Ia.**—Woodbury Co., W. H. Thompson, aud., 8 cars untreated and 4 cars treated Douglas fir bridge lumber, 2 cars treated yellow pine bridge lumber, 5 cars treated yellow pine piling and 6 cars red cedar piling, to Nebraska Bridge Supply & Lumber Co., 448 Peters Trust Bldg., Omaha, Neb., $16,000 plus freight.

TERRA COTTA PIPE, etc.—**Baltimore, Md.**—Bd. Awards, terra cotta and vitr. sewer pipe, Material Contr. 88, to Pen Mar Co., Munsey Bldg., Baltimore, $15,173. Noted Feb. 25.

GRAVEL, TRACTORS, etc.—**Meridian, Miss.**—Lauderdale Co., M. Cameron, clk., 6 monhts supply of gravel, to Columbus Gravel Co., Columbus, at $0.40 per ton, and to Forrest County Gravel Co., Hattiesburg, at $0.35 per ton; tractors and trucks, to Mississippi Road Supply Co., $2,375, and to Mississippi Tractor & Equipment Co., $3,688, both Jackson. Noted Feb. 18.

RAILROAD TIES—**New York, N. Y.**—Interborough Rapid Transit R.R. Co., 7th Ave. and 147th St., 3 million bd.ft. railroad ties, to Driver Lumber Co., Thomasville, Ga. Cost delivered about $125,000.

PIPE and FITTINGS—**Cincinnati, O.**—City, A. S. Hibbs, supt. Waterworks Dpt., City Hall, furnishing pipe, fittings required for 1932, to U. S. Pipe & Fdry. Co., Webb and Crawford Sts., Birmingham, Ala., $118,568.

PIPE—**Aberdeen, S. D.**—L. W. Kohloff, city aud., 2,000 lin.ft. 6 in. and 400 ft. 4 in. centrifugally cast c.i. pipe, to U. S. Pipe & Fdry. Co., Plymouth Bldg., Minneapolis, Minn., $1,392. Noted Feb. 18.

CAST IRON PIPE — **Memphis, Tenn.** — Bd. Water Comrs., J. Sheahan, genl. supt., 50,000 ft. 6 in. B c.i. pipe or centrifugal process pipe, necessary standard fittings, to U. S. Pipe & Fdry. Co., Webb Crawford Bldg., Birmingham, Ala., at $0.4414 per lin.ft.

PIPE, CAST IRON FITTINGS — **Corpus Christi, Tex.**—At office T. Koester, city secy., furnishing, delivering 16,000 ft. 4 in. and 2 000 ft. 6 in. pipe and c.i. fittings, to National Cast Iron Pipe Co., Corpus Christi, $7,723. Noted Feb. 4.

WATER PIPE—**Blaine, Wash.**—See "Waterworks."

PIPE, etc.—**Kamloops, B. C.**—City, furnishing 10,000 ft. 6 in. and 15,800 ft. 8 in. de Lavaud c.i. pipe, to Evans, Coleman & Evans Ltd., foot Columbus Ave., Vancouver, $18,000; fifty-two 6 in. and eight 8 in. gate valves, to Crane Co. Ltd., Beatty St., Vancouver, $2,000.

ALUM—**Ottawa, Ont.**—Waterworks Branch, W. E. MacDonald, in chrage, 325 tons alum each, to General Supply Co., of Canada, 360 Sparks St., and Wright Builders Supply Co., Catharine St., both of Ottawa, at $24 per ton.

EQUIPMENT

PROPOSED WORK

TRACTOR—**Bemidji, Minn.**—City, B. Denley, clk., Park Bd., A. V. Garlock, pres., purchasing tractor for mowing golf course.

DIESEL ENGINES—**Marshall, Minn.**—City Council, A. G. Bumford, clk., soon takes bids diesel engines for city light and power plant.

PUMP—**Rochester, Minn.**—City Power and Light Dpt. soon takes bids feed water pump for municipal light plant. L. A. Cowles, 310 North Bway., engr.

PUMPS—**Two Harbors, Minn.**—City Council purchasing 2 electrically driven pumps. C. Clapper, city engr.

GENERATOR SET—**St. Paul, Minn.**—State Bldg. Comn., H. Rines, secy., State Capitol, soon takes bids new motor generator set for state capitol power plant. Pillsbury Eng. Co., 1200 2nd Ave. S., Minneapolis, engrs.

PUMPS—**Two Harbors, Minn.**—City Council, E. Carlson, clk., soon takes bids 2 electric driven pumps for municipal power and light plant.

PUMPS—**Orrville, O.**—Bd. P. Affairs, A. D. Webster, secy., bids in April, 2 motor driven centrifugal water pumps for water cooling system.

FIRE TRUCK—**Salt Lake City, Utah**—City, c/o J. M. Knight, ch. Fire Dpt., purchasing fire truck. $8,000. W. D. Beers, city engr.

BIDS ASKED

ELECTRICAL EQUIPMENT—**Boston, Mass.**—Mar. 30, by Transit Dpt., 1 Beacon St., furnishing, delivering control and meter boards, 15 kv. switch gear, 2,500 v. switch gear, 480 v. switch gear, lighting and service panels, motor controllers, motor generators, storage batteries, transformers induction voltage regulators for traffic tunnel.

GRADER—**Brainerd, Minn.**—Mar. 21 (extended date), by City, E. T. Fleenor, clk., 10,000 to 15,000 lb. street grader. Noted Mar. 3.

PUMP—**Glencoe, Minn.**—Mar. 22, by City, F. X. Eichmann, clk., one 140 gal. vertical turbine pump, with motor.

GENERATOR SET—**Hastings, Minn.**—Mar 22, by C. R. Erickson, state purch. comr., State Capitol, St. Paul, 200 kw. turbine generator set and switchboard for power plant in Hastings State Asylum. G. M. Orr & Co., 408 Baker Bldg., Minneapolis, engrs.

METER TESTING MACHINES — **Mankato, Minn.**—Mar. 21, by City, 1 meter testing machine for ¾- to 6-in. complete with scales, adapters, etc. P. F. Comstock, city engr.

FIRE HOSE—**Omaha, Neb.**—Mar. 22, by City, c/o R. N. Towl, comr., 400 City Hall, fire hose. $5,000

TRUCK, etc.—**Hawthorne, Nev.**—Comrs. Mineral Co., taking bids 1½ ton truck with dump body, 4-wheel drive, 30-tractor.

FIRE HYDRANTS—**Milwaukee, Wis.**—Mar. 25, by Central Bd. Purchases, 400 fire hydrants. J. W. Nicholson, purch. agt.

CONTRACTS AWARDED

CHLORINATING EQUIPMENT — **Phoenix, Ariz.**—City Comn., City Hall, furnishing, installing chlorinating equipment, to Pratt-Gilbert Hardware Co., 701 South 7th St., $3,336.

HIGHWAY MARKERS—**Colorado**—State Hy. Dpt., Denver, 25,000 signs of which 3,000 will be directional signs placed on hys. in the hills, to Sachs-Lawlor Co., 1543 Larimer St., Denver, $20,000.

POWER PLANT EQUIPMENT—**Highland, Ill.**—City, C. H. Stocker, mayor, cooling tower basin, to Stocker Gravel & Constr. Co., Highland; Tuthill pump, to A. K. Howell Co., Inc., Syndicate Trust Bldg., St. Louis, Mo.; sump pump, to Stewart Mchy. Co., Buder Bldg., St. Louis, Mo.

PUMPING EQUIPMENT—**Woburn, Mass.**—Superintendent P. Wks., City Hall, furnishing pumping equipment, etc., Horn Pond Pumping Station, to A. P. Rounds, 58 Montvale Ave., Stoneham $14,821. Est. $15,000. Noted Feb. 18.

PUMP—**Curtis, Neb.**—City, furnishing, installing 250 g.p.m. vertical turbine pump, to Layne Western Co., 507 Mutual Bldg., Kansas City, $1,060.

CONTROL EQUIPMENT—**Pittsburgh, Pa.** — E. G. Lang, dir. Dpt. P. Wks., City-County Bldg., control equipment for new Brilliant Pumping Station, to Franklin Electric & Constr. Co., 117 1st Ave., $4,196.

TURBINE, etc.—**Brookings, S. D.**—City Council, A. O. Bortnem, aud., 1,000 kw. turbine, to Westinghouse Electric & Mfg. Co., 2303 Northeast Kennedy St., Minneapolis, Minn., $24,900; condenser, to Kent-Ervin Eng. Co., 732 Builders Exch. Bldg., Minneapolis, Minn., $6,060.

FOREIGN

Union Socialist Soviet Republics—Commissariat for Municipal Economy, c/o Amtorg Trading Co., 261 5th Ave., New York, trolley car lines in Magnitogorsk (Urals) Dzerzhinsk and Novo Siberisk (Siberia), by technical aid contracts. $6,000,000.

Union Socialist Soviet Republics—Oil Trust, Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, 460 mi. oil pipe line from Guriev to Orsk, work to begin at both termini, at once by technical aid contracts, $40,000,000, also mechanization of 31 additional coal mines in Donetz Basin.

Union Socialist Soviet Republics—Soviet Government, c/o Leningrad Div. Peat Industry, c/o Amtorg Trading Corp., 261 5th Ave., New York, peat coking plant in Khibini Dist., Kola Peninsula, by day labor and technical aid contracts. To exceed $40,000.

Union Socialist Soviet Republics — Soviet Government, c/o Amtorg Trading Corp., 261 5th Ave., New York, copper mining (open cut, mechanized shovel operations) mills, smelter, for 400,000 tons annual production, incl. roads and railroads at Lake Balkish, near Tashkent, work by technical aid contracts, J. K. Calder, ch. constr. engr.; steel mill, incl. open hearth department, rolling mill, forge shop, press department, 2 heat treating shops, tool and die department, laboratory and factory school buildings, at Kolpin, Leningrad Region, by technical aid contracts, $75,000,000; oil refining plant 1,500,000 tons annual capacity, at Orsk by technical aid contracts and day labor; 1,000,000 gal. annual capacity oil cracking plant, incl. 24 cracking units, Grozny, North Caucasus, by technical aid contracts, $50,000,000.

U. S. S. R., Bakal—Soviet Government c/o Amtorg Trading Corp., 261 5th Ave., New York, completed final plans steel and iron smelter and mill, Ural Region. $5,000,000 to be spent this year. Construction will begin soon by technical aid contracts, completion in 1936.

Commercial Buildings

PROPOSED WORK

Conn., Niantic — State of Connecticut, c/o State Tuberculosis Comn., general contract bids after Apr. 1, Seaside Sanatorium, 1 story, 50 x 240 ft., brick, steel, Goshen Section. $200,000. Cass Gilbert, 244 Madison Ave., New York, archt Noted May 28.

Ill., Chicago—K. Franzheim, archt., 22 East 40th St., New York, in charge of architects competition for Chrysler Corp., 341 Massachusetts St., Detroit, Mich., receiving designs from architects (selected list only), due Apr. 2, for exhibition building, on 6 acre tract, 31st St. and Lief Ericson Dr. Owner takes bids on general contract about June 1. $500,000.

Kan., Leavenworth—Bd. Educ., sketches rein.-con., brick, stone high school. $175,000. Insurance money also available. $57,000. Election Mar. 22, $120,000 bonds towards cost. Noted Feb. 25.

Me., Wilton—Town Council, W. Bass, chn. School Com., sketches 2 story, basement, brick high school. $150,000. Architect not appointed.

Mass., Boston—City, Fire Comrs., 60 Brostol St., central fire station. To exceed $150,000 Architect not appointed.

Mass., Clinton—Bd. Educ., A. P. Fetting, chn. Building Comn. 2 story, basement school. $150,000. Architect appointed soon.

Mass., Fitchburg—Commonwealth of Massachusetts, Dpt. Educ., State House, Boston, normal school unit. $140,000-$150,000. Architect not appointed.

Mass., New Bedford—St. Luke's Hospital, Allen St., sketches by W. Tallman, 222 Union St., hospital unit, Allen, West and Taber Sts. $150,000. Maturity 1933. Noted Apr. 16.

Mass., Pittsfield—Unitarian Church of the Unity, G. B. Spum, pastor, 257 East St., church. $125 000-$150,000. Architect not appointed.

Mass., Saugus — Town, c/o F. B. Sloane, Chamber of Commrece Bldg., altering and constructing 2 story, basement, brick high school addition, Central St. $150,000 or more.

Mass., Taunton—Sacred Heart Roman Catholic Church, E. J. Moriarty, pastor, soon takes bids 2 story, basement, brick parochial grade school, plain found., 2nd St. $150,000. H. Fallows, 131 Stewart St., Fall River, archt. Noted Dec. 10.

Mass., Worcester—Worcester Co. Comn., W. Gould, chn., altering and constructing court house addition, Lincoln Sq. $2,000,000. Architect not appointed.

Mich., Detroit—One Hundred and Eighty Second Field Artillery, c/o A. Kahn, Inc., archts., Marquette Bldg., 2 story, basement, concrete, steel, brick armory, plain found., Artillery Ave. $200,000.

Mo., Kansas City—Kansas City Terminal Ry. Co., J. V. Hanna, ch. engr., Union Sta., soon lets contract 45 x 300 ft. mail handling room annex, rein.-con., steel. $500,000.

N. H., Manchester—Manchester Post Amer. Legion, West Bridge St., sketches by Osberg & Pratt, 795 Elm St., altering and constructing 3 story, basement, brick club house addition, Elm and Westbrook Sts. $150,000.

N. J., Kingston—F. F. Durang, archt., 110 West Dudley Ave., Westfield, soon lets contract 1 story, basement, 60 x 150 ft. brick, rein.-con. chapel, for St. Joseph's College, J. Dunn, pres., Aqueduct, Princeton, N. J. $150,000. Rev. J. A. Skelly, 100 East Price St., Phila., Pa., in charge E. E. Seelye & Co., 101 Park Ave., New York, engrs. Noted Mar. 10, under "Princeton."

N. J., Laurenceville—See "Sports and Parks."

N. J., Teaneck—Bd. Educ., High School, 2 story, basement, brick, steel school, Garrison Ave. $200,000. N. T. Anthony, 19 West 44th St., New York, archt. Smith & Ward, 100 East 42nd St., New York, assoc. archts. Owner will take bids when school bonds can be sold. Noted Oct. 8.

N. Y., Buffalo—Adjutant General, Capitol, Albany, bids in April, 3 story, 224 x 317 ft. drill hall for 106th Field Artillery. $900,000.

N. Y., Haverstraw—Bd. Educ., School Dist. 1, plans by Knappe & Morris, 171 Madison Ave., New York, 3 story, basement, brick, steel, rein.-con. school, Lincoln and Ridge Sts. $150,000. Maturity indefinite.

N. Y., Malverne—High School Dist. 12 defeated $525,000 bonds, for high school.

N. Y., New York—Town Centre House Realty Corp., c/o Cherry & Matz, archts., 232 Madison Ave., hotel, 336 West 45th St. To exceed $150,000.

O., Cleveland — First Hungarian Reformed Church, J. Herczegh, pastor, 2850 East 79th St., plans by H. W. Maurer, 5716 Euclid Ave., 1 and 2 story, brick, stone, steel, concrete church and educational building, Buckeye Rd. and East Blvd. $200,000.

Okla., Tulsa—Valhalla Trust Estate, Oklahoma National Bldg., c/o W. M. Heotwole, mgr., O. N. G. Bldg., plans by Hays Eng. Co.,

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Commercial Buildings (Continued)

Broken Arrow, administration building $65,000, chapel and mausoleum $500,000, water and chimes tower $40,000, crematory, $10,000, water system and greenhouse is included, cemetery plot is being developed by L. P. Cummings, landscape engr., Birmingham, Ala.

Pa., Torrance—Torrance State Hospital, C. R. McKinnis, supt., revised plans nearing completion by B. H. Prack, Martin Bldg., Pittsburgh, and probably take bids late this month, 1 story, basement, 92 x 218 ft., brick, tile, limestone, dining room and kitchen with 23 x 70 ft. reception wing. $173,618. Noted Feb. 18.

Ont., Eastview—Parish of Assumption, A. Cavanaugh, pastor and mgr., purchased site for church, plans will be prepared during spring for fall construction. $300,000.

Ont., Kingston—Queens University, W. E. McNeil, vice principal, plans by C. Drever, 81 Brock St., altering old arts building. $175,000.

BIDS ASKED

Calif., San Francisco—H. A. Minton, archt. Bank of Italy Bldg., taking bids group rein.-con. college buildings, Turk St. for Sisters of Sacred Heart, 1100 Franklin St. $250,000. Former bids rejected. Noted Nov. 12.

Ill., Chicago—Century of Progress Eitel, Inc., mgrs. of restaurant, 520 West Madison St., bids about Mar. 15, 3 story, 300 x 300 ft., steel frame, composition siding restaurant, incl. main dining room, open air dining room, 2 small dining rooms, cafeteria, 31st St. and Leif Ericson Dr. $200,000. K. M. Vitzthun & Co., Inc., 1 North La Salle St., archts. Shattuck & Layer, 221 North La Salle St., assoc. archts.

Ind., Muncie—Mar. 25, by Ball State Teachers College, 3 story, basement, rein.-con., brick, stone college. $150,000. F. F. Schreiber, Architects Bldg., Indianapolis, archt. Bevington & Williams, Indiana Pythias Bldg., Indianapolis engrs. Noted Dec. 31.

Mass., Fall River—St. Mathews Parish, G. F. Cain, pastor, 82 St. Mary St., taking new bids 3 story, basement, brick, steel convent. $150,000. W. F. Fontaine, 285 Main St., Woonsocket, R. I., archt. Former bids rejected. Noted Mar. 3.

Mass., Gloucester—Mar. 25, by Gilbert Hospital, 298 Washington St. and Phillips & Halloren, archts., 191 Main St., superstructure 3 story, basement, brick hospital annex, plain found., $150,000; heating, plumbing and electrical work, $25,000 or more. Noted Feb. 25.

N. J., Jersey City — Bd. City Comrs., City Hall, bids about May, 15 story, basement, brick, steel psychopathic hospital, Montgomery and Baldwin Sts. $750,000 or more. J. T. Rowland, Jr., 30 Journal Sq., archt. F. Sutton, 140 Cedar St., New York, engr. Noted Jan. 21.

N. J., North Haledon—J. Bellomo, archt., 6 Park Ave., Paterson, taking bids 3½ basement, 50 x 110 ft. brick, steel chapel, for Owner, c/o architect. $150,000. Noted Feb. 4.

N. J., Oceanport—Mar. 30, by Bd. Educ., 2 story, basement, brick, steel, stone school addition. $150,000. F. T. Noble, 1630 Springfield Ave., Maplewood, archt. Noted Nov. 26.

N. J., Princeton—Mar. 21, by C. Z. Klauder, archt., 1429 Walnut St., Phila., Pa., general contract, Joline Dormitory, 3 story, basement, 35 x 135 ft. main building, 3 story, 40 x 68 ft. wing, for Princeton University, E. A. MacMillan, supt. Noted Feb. 11.

N. Y., Douglaston—See "Contracts Awarded."

N. Y., Long Island City — See "Contracts Awarded."

N. Y., New York—Mercantile Library Assn., 13 Astor Pl., taking bids (selected list contractors), 8 story library, 17 East 47th St. $350,000. Will award general contract about Apr. 15. Noted Feb. 2.

N. Y., White Plains — See "Contracts Awarded."

O., Dayton—Apr. 5, by Bd. Educ., Northridge Rural School Dist., R. R. 5, 3 story, basement, brick, rein.-con. school addition, plain found., Dayton-Troy Rd. $150,000. Walker & Norwick, American Bldg., archts.

Pa., Warren—Mar. 30, by Warren State Hospital, c/o H. W. Mitchell, supt., 2½ story, basement, steel frame dining hall, 2 story, 53 x 83 ft. steel, stone laundry at State Hospital. $173,690. W. T. Monahan, 808 Palace Hardware Bldg., Erie, archt. Noted Nov. 27.

R. I., Warwick—Town, W. A. Sherman, supt. schools, bids about Apr. 1, Junior and Senior High School, 2 story, basement, brick, steel, plain found. $280,000. W. R. Walker & Son, 49 Weybosset St., Providence, archts. Noted Feb. 25.

R. I. Woonsocket—St. Vincent De Paul's Society, c/o J. F. Hogan, archt., Grosvenor Bldg., Providence, bids about Apr. 1, 2 story, basement, brick, stone Old Folk's Home, plain found. Blackstone St. $150,000. Noted Feb. 4.

Wash., Seattle — Bd. Regents University of Washington, Henry Bldg., bids about Apr. 15, 4 story, basement, 60 x 170 ft. law building with 4 story, 40 x 50 ft. book-stack wing, on campus. $325,000. A. H. Albertson, Henry Bldg., archt. Noted Oct. 22.

Tex., College Station—Mar. 19, by A. & M. College, c/o F. M. Law, pres., W. Wipprecht, bus. mgr., 3 story, 114 x 256 ft., brick, rein.-con., steel, stone argicultural building, campus. F. E. Giesecke, College Station, archt. Noted Mar. 3.

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Ore., Sheridan — Douglan-Reverman, Inc., archts., Kraemer Bldg., Portland, bids about Mar. 15, 4 story, concrete, steel building, on Paridise View Hill, for Jesuit Novitiate. $150,000. Noted Oct. 16.

CONTRACTS AWARDED

Calif., Los Angeles — Temple Towers Apartment-Hotel, Inc., 1100 Glendale Blvd., 12 story Class A hotel, to N. Herman, 1907 West Adams Blvd. Est. $500,000. Noted Mar. 3.

Conn., Middlebury—Town, School Bd., 2 story, basement brick, stone, grade school, plain found., Main St. to Judd & Bronson, Inc., Middlebury. $150,000.

Conn., Montville — Memorial Union Baptist Church, R. J. Bates, pastor, 1 and 2 story, 55 x 75 ft. stone church, to H. R. Douglas & Son, 253 State St., New London. Est. $150,000. Noted Feb. 18.

Ill., Bloomington—Park Hill Cemetery Assn., 1st National Bank Bldg., 1 story, 57 x 61 ft. marble, stone, rein.-con. mausoleum, Park Hill Cemetery, to H. W. Underhill Constr. Co., 235 North Waco St., Wichita, Kan. Est. $75,000.

Ind., Tipton—St. Josephs Academy, general contract St. Katherine Hall Auditorium, 2 story, basement, concrete, rein.-con., brick, limestone to A. J. Wolf, 316 Heath St., Logansport. Est. $150,000. Noted Feb. 4.

Md., Baltimore — J. F. Eyring, archt., 808 South Conkling St., auditorium, administration and school, each 2 story, brick, limestone, rein.-con., tile, steel, ornamental iron, steam heating, kitchen equipment, electric wiring, Conkling St., Highlandtown, for Sacred Heart Roman Catholic Church, to E. Eyring & Son, 808 South Conkling St. $200,000. Noted Feb. 25.

Md., Baltimore—Smith & May, archts., Baltimore Trust Bldg., Baltimore, high school addition, incl. 2 story, 72 x 102 ft. gymnasium, 39 x 157 ft. wing, 2 story, 40 x 55 ft. connecting wing, brick, cut stone, hollow tile, to L. L. Chambers, 36th St. and Roland Ave., Baltimore. Est. $150,000. Noted Feb. 25.

Md., North East—Bd. Educ., 2 story, 112 x 116 ft., brick, stone, concrete, rein.-con., steel, iron, hollow tile high school, to Clarke Constr. Co., Amer. Trust Bldg., Baltimore, $75,000.

Mass., Boston—City Dpt. P. Buildings, 2 story, basement, stone brick, steel, police station, plain found., North and Richmond St., to Thomas O'Connor & Co., Inc., 288 Main St., Cambridge. Est. $300,000. Noted Feb. 18.

Mass., Boston—City, Dpt. P. Buildings, 2 story, basement, brick, stone police station, plain found., to T. C. Dolan, 43 Tremont St., $239,660. Noted Jan. 28.

Mass., Boston—E. T. Slattery Co., c/o F. A. and F. M. Kimball, archts., 45 Bromfield St., altering 6 story, basement, brick, steel store, to J. M. Tobin, Inc., 40 Central St. To exceed $150,000. Noted Feb. 25.

Mass., Boston—Owner, 7 story, basement, brick, steel office building, plain found., 78,000 sq.ft. floor space, High St., to G. W. Harvey Constr. Co., 79 Milk St. Est. exceeds $150,000.

Mass., Chelsea—Trustees Soldiers' Home, W. J. Keville, pres., 3 story, basement, 125 x 130 ft., brick service and nurses' home units at Soldiers' Home, to Louis B. Cadario & Sons, 260 Tremont St., Boston. Est. $300,000. Noted Feb. 25.

Mass., East Boston (sta. Boston)—F. Savasta, 26 Ashley St., reconstructing and altering 1 and 2 story, basement, 75 x 130 ft., brick, steel theatre, plain found., Bennington St., to Capobianco Constr. Co., 44 School St. Est. $150,000.

Mass., Jamaica Plain—City of Boston, Dpt. School Buildings, 2 story, basement, brick, stone intermediate school, plain found., Francis Parkman Dist., to Carilli Constr. Co., 73 Rockwell St., Mattapan. Noted Feb. 25.

Mich., East Lansing — State, Administrative Office, Lansing, general contract 3 story, basement, brick, steel, rein.-con. police office and barracks building, plain found., to F. C. Trier, Saginaw. Est. $150,000.

Mass., Taunton—St. Mary's Roman Catholic Parish, J. J. Shay, pastor, for Monsignor Coyle Memorial High School, 2 story, basement, 50 x 180 ft. and 60 x 90 ft., brick, marble, to Rowley Constr. Co., 260 Central Ave., Pawtucket, R. I. Est. $150,000. Noted Feb. 25.

Mass., West Roxbury (sta. Boston) — Altenheim, under direction German Ladies Aid Society, 2222 Centre St., 3 story, basement, irregular sized, brick, tile, stucco Altenheim (German Home for Aged), plain found., to Arlington Constr. Co., 691 Mass. Ave., Arlington. Est. $150,000 or more. Noted Feb. 25.

Minn., Minneapolis—Bd. Educ., 305 City Hall, 3 story, basement, brick, steel, rein.-con. school, between University Ave. and 4th St., to National Contg. Co., 2114 Foshay Tower, $276,450; reinforcing steel, to Laclede Steel Co., Arcade Bldg., St. Louis, Mo., $13,675. Noted Feb. 25.

Minn., Rochester—St. Marys Hospital general contract 50 x 167 ft. rein.-con., brick, Bedford stone chapel, to Heffron & Fitzgerald, Rochester. Est. $250,000.

Mo., St. Louis—St. Thomas Aquinas Roman Catholic Parish, J. P. Lynch, pastor, 3953 Iowa Ave., 2 story, basement, 99 x 210 ft. rein.-con., brick school, to A. Daly Constr. Co., Syndicate Trust Bldg., heating, to O'Mara Heating Co., 3136 Olive St.; plumbing, to Corrigan Co., 2501 West St. Louis Ave.; electric wiring, to Mack Electric Co., 4581 Gravois Ave. Noted Jan. 28.

Mont., Missoula — Missoula County High School Dist., J. G. Randall, chn., general contract rebuilding 3 story, 110 x 270 ft., rein.-con., steel, brick high school, to J. E. Hightower, Missoula, $131,348. Noted Nov. 26.

N. J., Teaneck—Mezick Homes Corp., Queens Village, residential develpoment, on 25 acres at River Rd. and State Hy. 4, separate contracts. To exceed $150,000.

N. Y., Douglaston—Yale Land Co., 110 West 34th St., residential development Nassau County line at Nassau Blvd., separate contracts, $300,000.

N. Y., Garden City—Bd. Educ., general contract school, to J. H. Eisele, 18 East 41st St., New York; plumbing, to W. E. Foley & Bros., 102-45 Jamaica Ave., Jamaica. Est. $250,000. Noted Feb. 11.

N. Y., Geneva—Hobart and William Smith College, general contract dormitory, to E. K. Fenno, 339 Winton St., Syracuse. Est. $160,000.

N. Y., Long Island City—City and Suburban Homes Co., 578 Madison Ave., 6 story, 190 x 450 ft. apartment, 50th Ave. and 44th St., separate contracts. $1,250,000. A. Goldhammer, 40 East 49th St., archt. Excavation, foundations, heating and plumbing contracts awarded. Soon lets other separate contracts. Noted Mar. 3.

N. Y., New York—P. J. Carlin Constr. Co., contractor, Grand Central Terminal, steel cells, cell blocks and other equipment for Rikers Island Penitentiary, to Southern Prison Co., 4500 South Presa St., San Antonio, Tex., for Dpt. Correction, Municipal Bldg. $350,000. Noted Jan. 8, under "Contracts Awarded."

N. Y., New York—Todd, Robertson & Todd Eng. Corp., 347 Madison Ave., 25,000 doors, frames, and steel bucks, 110,000 bronze door saddles, 2,400,000 lin.ft. hollow metal base and picture molding, and 200 specially decorated theatre doors for Radio City, to Dahlstrom Metallic Door Co., Buffalo, and East 2nd St., Jamestown, for Metropolitan Square Corp., 61 Bway. Noted Mar. 19, 1931.

N. Y., New York—Emigrant Savings Bank, 51 Chambers St., general contract altering store and office, 14 East 43rd St., to Marc Eidlitz, 100 East 42nd St. Est. $150,000. Noted Jan. 7.

N. Y., White Plains—W. Netter, 113 West 42nd St., New York developing 35 acre residential tract Old Mamaroneck Rd., separate contracts. To exceed $1,000,000. W. LaZinsk, Stone Ave., Elmsford, archt. Noted Mar. 3.

Pa., Danville — Commonwealth of Pennsylvania, Dpt. Property & Supplies, Harrisburg, 3 story, 50 x 185 ft. clinic and diagnostic building, 2½ story, basement, 50 x 140 ft. nurses' home, two 2½ story, basement, 24 x 34 ft. cottages, all brick, stone, concrete, plain founds., at Danville State Hospital, to Berwick Lumber & Supply Co., Berwick, $138,000; 2½ story, basement, 50 x 224 ft., brick, stone ward building, concrete found., to R. B. McDanel Co., New Brighton, $53,300. Noted Feb. 11.

Pa., Safe Harbor—Safe Harbor Water Power Corp., employees village in connection with new hydro-electric development on Susquehanna River, incl. 21 single family, English type brick cottages, 1 apartment house, bachelor quarters, dormitory, dining hall, to Consolidated Eng. Co., Safe Harbor, and 20 East Franklin St., Baltimore, Md. Est. $300,000. Foundation work, sewerage and water systems now being done by Arundel Corp., Pier 2 Pratt St., Baltimore, Md. Noted Jan. 22, under "Power Plants."

R. I., West Warwick—Christ the King Roman Catholic Parish, J. A. Forest, pastor, reconstructing office building into 1 and 2 story, basement, brick, stone church and rectory, plain founds., New London and Warwick Aves., to Brien Building Co., 125 Clinton St., Woonsocket. Est. $150,000. Noted Mar. 3.

Tex., Dallas — Bd. Educ., for Junior High School, 2 story, brick, stone, rein.-con., terra. Trinity Heights, to Eckert-Burton Constr. Co., Burt Bldg., $202,460; heating, plumbing, ventilating, to Martyn Bros., 611 Camp St., $41,444; electrical work, to Electric Constr. Corp., 209 South Pearl St., $7,937. Grand total $251,841. Noted Feb. 18.

Tex., San Antonio—Bd. Educ., Lavaca and Water Sts., converting present Main Ave. Senior High School into vocational center, incl. new 4 story, brick, rein.-con. building, plain found., to J. E. Morgan & Son, Majestic Bldg., San Antonio and El Paso incl. mechanical and sub-bids. Noted Jan. 28.

Va., Newport News — James River Golf & Country Club, 2 story club house, museum, 18 hole golf course, swimming pool, tennis courts, at Old Farm, to J. W. Davis, Newport News. Est. $150,000.

Wis., Milwaukee—Bd. School Directors, excavating, grading, structural steel for Rufus King High School to Hunzinger Constr. Co., 424 East Wells St., $161,859. Noted Oct. 1.

Wis., Waupaca—Foeller & Schaber, archts., Green Bay, 2 story, basement, 50 x 110 ft., brick, steel church, to Lemke & Feltz, Clintonville, for St. Mary's Magdalene Congregation, A. O. Rielandor, pastor. Noted Feb. 18.

Man., Brandon—Dpt. P. Wks., Parliament Bldgs., Winnipeg, supplying marble and tile for addition mental hospital, to Tile Supply Co., 12 Hull Ave., St. Vital. Noted Feb. 11 under "Contracts Awarded."

Que., Montreal—City Executive constructing St. Jean Baptiste Market, to Ryan & Co. Ltd., 5647 Park St. $245,000. Noted Nov. 12.

Ont., Gravenhurst—National Sanatoriums, Gage Building Addition, 5 story, 32 x 130 ft., steel, brick, to Wells & Grey, Ltd., Conf. Life Bldg., Toronto. $150,000.

Industrial Buildings

PROPOSED WORK

Ariz., Salome—Anozira Mining & Milling Co., 124 West 4th St., Los Angeles, Calif., mill, administration building, recreation hall and hospital, 40 mi. south of here. $600,000.

Calif., Los Angeles—H. Siskin, 5702 Olympic Blvd., plans by J. M. Cooper, 321 Rives-Strong Bldg., 1 story, 20,000 sq.ft. floor space, brick, steel factory, 62nd St. near Central Ave. Purex Chemical Co., lessee.

Idaho, Twin Falls—Murtaugh Irrigation Dist. power plant at Augur Falls on Snake River, for irrigating 42,000 acres in Twin Falls and Cassia Counties. $2,500,000. H. T. Henderson, Twin Falls, ch. engr.

Ill., Joliet—J. F. Bitterman Steel Products Co., 1401 East Cass St., 100 x 200 ft., concrete, brick, steel factory, plain found., Collins St. $75,000. Engineer and architect not appointed.

Mass., Gardner—Kuniholm Mfg. Co. sketches rebuilding baby carriage manufacturing plant, recently destroyed by fire. $45,000. Private plans.

Mass., Great Barrington—L. H. Smith, Egremont, sketches artificial ice plant at Lake Mansfield. $40,000. Architect not appointed.

Mass., Weymouth—Crawford Machine Co., Central Ave., reconstructing factory, recently destroyed by fire, Central Ave. $50,000. Private plans.

Miss., Vicksburg—Marquette Cement Mfg. Co., 140 South Dearborn St., Chicago, Ill., storage and distribution plant. To exceed $40,000. **Maturity indefinite.**

N. J., Elizabeth—Feldman Bros., Laurel St., rejected bids Feb. 15, general contract 1 story, basement, 40 x 125 ft. brick, steel abattoir addition. $40,000. May abandon project. A. J. Silberstein, 892 68th Ave., Newark, archts. Noted Feb. 18.

N. J., Rahway—Merck & Co., Lincoln Ave., soon lets general contract 1 and 2 story, basement, rein.-con., brick, steel factory addition, plain found., Lincoln Ave. $150,000. C. B. Lewellyn, c/o owner, archt. Noted Mar. 3.

N. Y., Brooklyn — Arato & Perganio, 418 Vanderbilt Ave., bids early in summer general and separate contracts 64 x 100 ft. service garage, Carlton Ave. and Fulton St. C. P. Cannella, 1163 Herkimer St., archt.

N. Y., Brooklyn—Bordens Farm Products Co., 110 Hudson St., New York, plans by A. Ullrich, 373 Fulton St., altering pasteurizing plant at Lexington and Grand Aves. and at Adelphi and Fulton Sts.

N. Y., Brooklyn—J. DiPietro, 294 Stanhope St., bids early in summer, general and separate contracts service garage, Stockholm St. and Irving Ave. A. Jannello, 367 Fulton St., archt.

N. Y., Brooklyn—J. Farrell, 101 3rd Ave., sketches by O. B. Almgren, 8605 3rd Ave., altering 3 story service garage, Bergen St. and 3rd Ave. To exceed $25,000.

N. Y., Brooklyn—Ferndale Farms, 219 Liberty Ave., plans by Kavy & Kavovitt, 350 Stone Ave., altering and constructing 1 story, 35 x 100 ft. top addition to service garage, Snediker and Liberty Aves.

N. Y., Brooklyn—Ojay Realty Corp. sketches by H. N. Nurick, 830 Putnam Ave., 2 story, 72 x 105 ft. service garage, Kings Highway and East 13th St. To exceed $150,000.

N. Y., Brooklyn—Souders & Schiffino, 426 4th St., plans by Burke & Olsen, 32 Court St., 2 story, 50 x 96 ft. service garage, 19th Ave. and Rutherford Pl.

N. Y., Brooklyn—Standard Oil Co. of New York 26 Bway., New York, plans by R. C. Browe, 883 South 14th St., Newark, N. J., 1 story, 33 x 145 ft., brick pump house, Norman and Kingsland Aves.

N. Y., Long Island City — Anchor Cap and Closure Corp. 22 Queens St., manufacturing plant addition, on Long Island R.R. from Dutchkills to Purvis St. **Maturity indefinite,** no immediate development.

N. Y., Long Island City—B. Holland, 48 South 6th St., Eaton, Pa., bids in August, general and separate contracts 24 x 69 ft. repair shop and service, Astoria Ave. and Ditmars Blvd. B. Chester, 26 Court St., Brooklyn, archt.

N. Y., Middletown—Zwick & Schwartz, 12 Union St. soon lets general contract 1 story, basement, 100 x 135 ft., brick, steel produce warehouse and refrigeration. $40,000. MacManus & Gleich, 11 West 42nd St., New York, archts.

N. C., Elizabeth City—Farmers Peanut Co., rebuilding plant, destroyed by fire. To exceel $200,000. Completion probably this year.

O., Cleveland—M. F. Bramley, pres. Cleveland Trinidad Paving Co., Western Reserve Bldg., plans by W. D. Lougee, 500 Marshall Bldg., 1 story, 100 x 100 ft., brick, steel, concrete garage, East 21st St. and Scovill Ave. $40,000.

Ore., Portland—Corvallis Creamery, W. Kaupisch, owner, rebuilding creamery plant, Front and Ash Sts. $50,000.

Pa., Altoona—S. H. Kress & Co., 114 5th Ave., New York, plans by E. F. Sibert, 114 5th Ave., brick, steel warehouse and store, 1409-11-13 12th St. $100,000 or more. **Maturity after May 15.**

Pa., Media—Philadelphia Electric Corp., 1000 Chestnut St., Phila., acquired 110 x 150 ft. site for substation or plant addition, Jefferson and Randor Sts. **Maturity indefinite.**

Pa., Pittsburgh—L. P. Kimball, archt., Baltimore & Ohio Bldg., soon lets 3 story, 84 x 292 ft., brick, steel warehouse, 21st and Railroad Sts., for Baltimore & Ohio R.R. Co. Baltimore & Ohio Bldg., H. A. Lane, ch. engr. $70,000. Pittsburgh Junction R.R. Co., 21st and Railroad Sts., Pittsburgh, Pa., lessee.

Pa., Pittsburgh—Ingham & Boyd, archts., Empire Bldg., soon lets brick, steel garage and commercial building, Bingham St. and Sulgrave Rd., for Buhl Foundation. C. E. Lewis, dir., Farmers Bank Bldg $100,000.

R. I., Providence—E. G. Page, 225 Fountain St., plans by F. Chiaverini, 32 Bway., 2 story, 75 x 155 ft. brick, steel, super service station and showroom, Fountain St. $50,000.

Tex., Marlin—Marlin Ice Mfg. Co., c/o N. Levy, 60 ton ice plant. $65,000. Private plans will probably let building contract and purchase machinery and equipment in open market.

Tex., New Braunfels—Owner, sponsored by Texas Angora Goat Raisers Assn., Rock Springs, c/o B. Davis, Rio Frio, mohair and woolen mills. City proposes to give site, building, and finance project.

Wis., Appleton—Appleton Shirt & Pants Co., W. J. Mueller, pres., 222 West Lawrence Ave., sketches rebuilding rein.-con., steel, brick factory destroyed by fire. $50,000. Architect not appointed.

Tex., San Antonio—Mistletoe Creameries, A. J. White, vice pres., 219 Austin St., (Borden Co., parent owners) preliminary surveys 2 story, brick, rein.-con. creamery plant, plain found., incl. considerable new equipment, machinery, Jones St.

B. C., Port Moody—Curie & Co., 729 Vancouver Blk., Vancouver, textile plant report by Mr. Curie, to be proposed by European Interests, negotiating for site and tax concessions with city of Port Moody. Architect and engineer not appointed.

Newfoundland, St. Johns—Dpt. P. Wks., altering cold storage plant. $70,00-$75,000.

Nova Scotia, Baddock—North American Gypsum Co. Ltd., preparing plans plant. $150,000. Private plans.

Que., Kazulazua — A. Pritchard flour and feed mill. $50,000.

Que., Montreal East—Joseph Elie Ltd., 393 Hibernia Rd., Montreal, oil refining plant, Sherbrooke St. E. $1,000,000.

Que., Sherbrooke—Central Quebec Light, Heat & Power Co. soon takes bids hydro-electric development on St. Francis River. $1,250,000.

BIDS ASKED

Ill., Chicago — S. N. Crowen & Associates, archts., 221 North La Salle St., taking bids (invitation only), general contract 4 story, (ultimately 6 story) basement, irregular sized, rein.-con., brick warehouse, plain found., Division and Hooker Sts., for B. A. Railton Co., 363 West Erie St. $600,000.

Ill., Chicago—H. C. Christianson, archt., 59 East Van Buren St., taking bids on separate contracts 1 story, basement, 124 x 138 ft., brick, cut stone, structural steel, packing plant, 41st St., for Grover Co., 715 West 41st St. $100,000.

Ia., Sumner—City Council, bids about May 1, complete light and power plant, incl. building. Election Mar. 24 to vote on bonds for same. H. L. Cory, 1034 Redick Tower, Omaha, Neb., engr. Noted Feb. 18.

N. J., Billingsport (Paulson)—See "Contracts Awarded."

N. J., Newark—H. C. Hammel, archt., c/o owner, taking bids and open same about Mar. 21, 7 story, 57 x 80 ft. chemical plant addition, Shipman St., for Hoyt Bros., Inc., 100 Shipman St. $100,000 with equipment.

N. J., Newton—See "Contracts Awarded."

N. Y., Long Island City — See "Contracts Awarded."

Pa., Altoona—Mar. 21, by McCormick Co., archts., 121-27 South Negley Ave., Pittsburgh, 2 story, 75 x 100 ft., brick, concrete dairy, 24th St., for J. E. Harshbarger, 406 24th St.

R. I., Newport—Mar. 22, by H. L. Rooney, 116 Bellevue Ave. and E. M. Corbett, archt., 49 Purchase St., Fall River, Mass., 1 story, brick, concrete, steel sales and service station, concrete found., Casino Terrace. $50,000. Noted Mar. 3.

Utah, Sigurd—J. Greenwood, 1150 Herbert Ave., Salt Lake City, taking bids structural steel for rebuilding plaster mill, for Jumbo Plaster Mill Co., Sigurd. $250,000. Noted Feb. 25.

Wis., Appleton—Tschank & Christensen, 417 West College Ave., taking bids 2 story, basement, 25 x 120 ft. brick, rein.-con. sheet metal working plant, College Ave. $40,000. LeVee & Gmeiner, 60 West College Ave., archts.

Ont., Toronto—McQuay-Norris Mfg. Co., W. K. Norris, pres., 2320 Cooper St., St. Louis, Mo., taking bids (from Canadian contractors), 1 story, basement, 80 x 140 ft., rein.-con., brick piston ring plant, York Twp. $100,000. Noted Feb. 18.

CONTRACTS AWARDED

Calif., Los Angeles—Loose-Wiles Biscuit Co., 811 Commerce St., Kansas City, Mo., 1st unit, incl. 1 story, 140 x 220 ft. warehouse and garage, to C. J. Kubach-Snyder Co., 730 Chapman Bldg. Est. $100,000. Main building, 5 story, Class A construction, will start after above unit is completed. Noted Dec. 3 and 17.

Conn., Thomaston—H. O. Vogt, treas., Eclipse Glass Co., 1 story, basement, 55 x 120 ft., brick, steel factory, North Main St., to A. Tamburini, 1641 Baldwin St., Waterbury. Est. $40,000.

Ill., Niles Center—Phillips Petroleum Co., 1 and 2 story, 60 x 200 ft. and 20 x 40 ft. brick, concrete warehouse and garage, to Austin Co., 16112 Euclid Ave., Cleveland, O. Est. $100,000.

Kan., Winfield—Consolidated Milling Co., F. Burns, genl. mgr., enlarging mill, incl. five 500,000 bu. rein.-con. storage bins, to McDowell Constr. Co., Denver, Colo. Est. $100,000.

Mass., Leominster—Leominster Ice Co., 229 Pleasant St., 1 story ice manufacturing plant, steel, plain found., to J. Lagey, 416 Pleasant St. Est. $40,000. Noted Mar. 10.

Mo., St. Joseph—Dugdale Packing & Cold Storage Co., R.F.D. 5, 1 story, basement, 50 x 66 ft. rein.-con., brick packing and cold storage plant, South 11th St. Rd., to North St. Joseph R.E. Co., 119½ South 6th St. Est. $40,000.

N. J., Billingsport (Paulson)—Vacuum Oil Co., 61 Bway., New York, rebuliding circulating tower and other refinery work, damaged by explosion, day labor. **Maturity indefinite.**

N. J., Edgewater—National Sugar Refining Co. of New Jersey, M. Catlin, in charge, general contract 1 story, basement, brick, steel garage, to F. W. Bogert, 37 Huyler St., Hackensack; steel and iron, to Belmont Iron Wks., 41 Whitehall St., New York. Est. $150,000. Noted Feb. 18.

N. J., Newton — M. K. Pickett & Son, 21 Townsend St., 1 story, basement, brick, steel artificial ice plant, Water St., separate contracts. $40,000. Private plans. Noted Feb. 18.

N. J., Millville—Ford, Bacon & Davis, engrs., 39 Bway., New York, will build 2 story, basement, brick, steel, gas plant and office addition, 2nd St., by separate contracts, for Cumberland County Gas Co., Millville. $40,000. **Maturity indefinite.**

N. J., Salem—L. H. Goettleman, archt., 402 Chestnut St., Brooklawn, general contract 2 story, basement manufacturing plant, 1 story, 40 x 100 ft. warehouse, 1½ story, 50 x 115 ft. printing shop, 1 story, 25 x 142 ft. inspection shed, 1½ story, 130 x 150 ft. oven room, and 1 story, 50 x 235 ft. oven room, for Mannington Mills, Inc., to Industrial Constructors Co., Inc., Broad and Allegheny Aves., Phila., Pa., $63,000. Noted Feb. 25.

N. Y., Long Island City—Valentine Schiller, 3064 41st St., 1 story, 50 x 100 ft. service garage and shop, 47th St. and 25th Ave., day labor and separate contracts. Noted Mar. 3.

N. C., Charlotte—Buffalo Electro Chem. Co., Tonawanda, N. Y., storage and distribution plant, to Jones Constr. Co., Commercial Bank Bldg. Est. $40,000, incl. equipment.

S. C., Chester—Eureka Cotton Mills, 2 story, 83 x 153 ft. and 1 story, 128 x 218 ft. timber mill additions, to Potter & Shackelford, Inc., Greenville. Noted Feb. 25.

Pa., Safe Harbor — See "Unclassified Buildings."

Wis., Jonesville—Bowman Dairy Co., 1 story, 40 x 200 ft. receiving depot and 1 story, 20 x 60 ft. addition brick, steel, rein.-con., concrete found., to O. Bakken Co., Rockford, Ill.

Wis., Kaukauna—Thilmany Pulp & Paper Co., 1 story, 135 x 200 ft. paper mill building, to Permanent Constr. Co., 735 North Water St., Milwaukee. Noted Mar. 3.

Wis., Milwaukee — J. Laskin & Sons, Inc., 3728 North Fratney St., 1 story, 63 x 198 ft. top addition to factory, to Lupinski, Inc., 109 East Capitol Dr.

B. C., Grand Forks — City, new municipal power plant, 2 turbines and generators, 230 hp. each, to be installed in brick power house with all machinery requirements, supplied by Canadian Westinghouse Co., Marine Bldg., Vancouver, to Yuill & Knight, 626 West Pender St., Vancouver, $45,000.

B. C., Vancouver—Pressure Pipe Co. of Canada, Ltd., 1605 Royal Bank Bldg., factory, consisting timber buildings and crane gantrys, foot of Fell Ave., North Vancouver, to Stewart & Watson, 615 West Pender St., $10,420. Total est. $75,000 incl. equipment. Noted Feb. 18.

Que. Montreal—City Executive Committee, St. Lawrence Market Addition, to Concrete Constr. Co., Ltd., Racine Blvd., $44,450.

See proposal advertising on page 67

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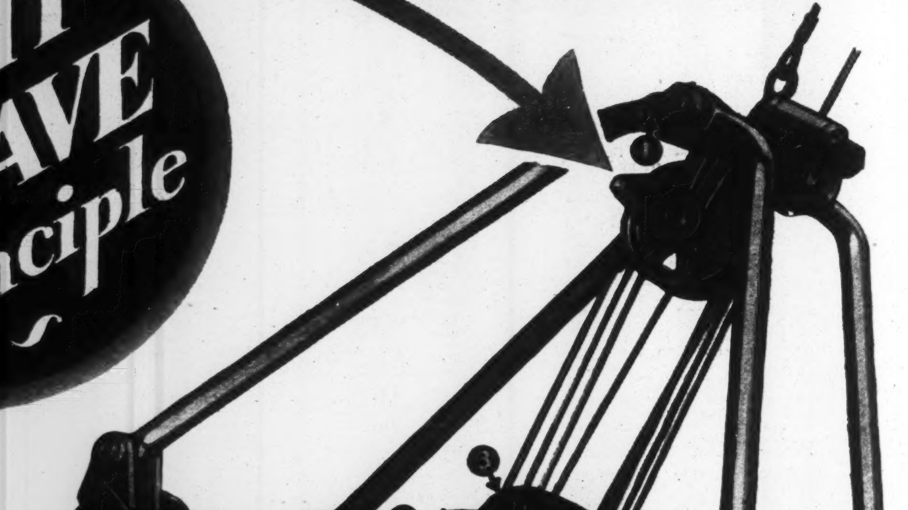

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CONSTRUCTION NEWS

SECTION OF ENGINEERING NEWS-RECORD—MARCH 24, 1932

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WATERWORKS

PROPOSED WORK

Ark., Morrillton—Arkansas Light & Power Co., Pine Bluff, soon takes bids constructing deep wells as source city water supply. $12,000. C. L. Waldron, local mgr.

Colo., Denver—City plans expending $300,000, modernizing water system, incl. installing machinery, wiring, other equipment, replacing steam pumping plant with electric pumps, to be completed within two years, under contract signed by Water Commission and Public Service Commission of Colorado, which will furnish power for the project.

Ia., Council Bluffs—Waterworks Trustees approved plans laying 8 to 36-in. mains, installing auxiliary pump, new pump of higher pressure at Glendale Station. $150,000. Noted Dec. 24.

Ia., Shenandoah — Preliminary plans waterworks improvements, incl. filtration plant addition. $50,000. Allen & Vogtborg, 205 West Wacker Dr., Chicago, consult. engrs. **Maturity indefinite.** Noted Feb. 18.

Kan., Anthony—Preliminary plans 2 m.g. water storage reservoir, 350 hp. super heat boiler, soot blower, rebuilding part of power house. $35,000. Black & Veatch, Mutual Bldg., Kansas City, Mo., engrs. Noted Mar. 17.

Mass., Bedford—Town, Bd. Selectmen, waterworks extensions, bridges, hys. $25,000 appropriated.

Mass., Braintree—Town, Bd. Selectmen, extending waterworks. $20,000 appropriated.

Mass., Lynn—City surveys reservoir. To exceed $15,000. Site decided on completion of survey. City Engineer, City Hall, engr.

Mass., Randolph—Town; Bd. Selectmen, extending waterworks and constructing bridges, hys. $15,000 appropriated.

Mass., Taunton — Town reservoir, Prospect Hill. To exceed $15,000. G. A. King, City Hall, supt. Water Dept.

Mass., West Bridgewater—Town, Bd. Selectmen, waterworks extensions, bridges and hys. $23,000 appropriated.

Mass., Westwood—Town, watermains, bridges, $17,000 appropriated.

Mo., Huntleigh Village—E. Bakewell, chn. Bd. Village Trustees, Clayton Rd., St. Louis Co., requested City Council of Kirkwood to furnish estimate of cost to extend Kirkwood city water facilities to village and Bridlespur Hunt Club in St. Louis Co. Council has request under consideration.

N. Y., Brocton—Plans water supply. $15,000. G. C. Diehl, Inc., Ellicott Sq., Buffalo, engrs.

N. Y., Brooklyn—Dpt. Water Supply, Gas & Electricity, Municipal Bldg., New York, installing new and additional equipment at wells in Canarsie and Gravesend. Project submitted to State Water Power and Control Comn. for approval.

N. Y., Flushing—Dpt. Water Supply, Gas & Electricity, Municipal Bldg., New York, replacing and new equipment for existing water wells. Project awaiting State Water Control Comn. approval.

N. Y., New York — Eighty-Four William Street Corp., 84 William St., new tank-tower and 2 new steel water tanks, 84 William St. To exceed $20,000. H. R. Allen, 29 Allen St., archt.

N. Y., Rochester—City bids in spring new dam and reservoir in Honeoye, Ontario Co.

N. Y., Sherman—Plans waterworks. G. C. Diehl, Inc., Ellicott Sq., Buffalo, engrs.

Pa., Pittsburgh—See "Unclassified Buildings."

Tex., Abernathy—City, c/o Secretary, complete waterworks.

Tex., Belton—City, c/o A. E. Taylor, mgr., soon takes bids 90,000 gal. reservoir, and renovating natatorium.

Tex., Cross Plains — City, c/o Secretary, granted permit and plans reservoir.

Utah, Price—Preliminary plans 6 in. c.i. pipe line to replace wood line under Price River and Denver & Rio Grande R.R. tracks. $2,200. W. Wayman, city engr.

Va., Roanoke—Roanoke Waterworks Co., C. E. Moore, vice pres., plans waterworks expansion program, surveys by E. B. Whitman of Whitman, Requardt & Smith, Baltimore Trust Bldg., Baltimore, Md., work incl. additions to fire and service mains, storage facilities for territories supplied by booster pumps and new sources of water supply. Continued development of Carvins Cove Storage Reservoir for 6,500,000,000 gal. storage with filter and treatment plant, 50 in. pressure main 6 mi. into Roanoke, ultimate capacity of entire supply to be 25 m.g.p.d. $1,500,000.

Wis., Green Bay—City, M. P. Doherty, clk., electrifying pumping station, installing two 1,500 g.p.m. and one 1,000 g.p.m. pumps. J. S. Hartt, Madison, engr.

Que., Calumet—J. W. Milway, village secy., soon takes bids water distribution system. E. Gohier, 10 St. James St., Montreal, engr.

BIDS ASKED

Calif., San Diego—Apr. 11 (tentative) by City, El Capitan Pipe Line from Lakeside to El Capitan Dam site, incl. trenching, furnishing, placing 30,800 lin.ft. 48 in. and 11,500 lin.ft. 36 in. steel, c.i., concrete or wood stave pipe, furnishing, installing valves, connections, appurtenances and concrete structures, the static head ranging from 250 to 400 ft. $620,000. H. N. Savage, hydraulic engr.

Ind., Auburn—Apr. 1, by City, municipal waterworks, incl. furnishing, installing pumping equipment, miscellaneous pipe work. $15,000. C. Brossman, 1009 Chamber of Commerce Bldg., Indianapolis, engr.

Kan., Wichita—Mar. 28, by C. C. Ellis, city clk., water supply for sewage disposal plant, incl. well, pump, storage tank, pipe line. $8,000. P. L. Brockway, City Hall, engr. Noted Mar. 17.

N. Y., Wallkill—Apr. 7, by Comrs. Correction, State Office Bldg., Albany, water supply for Medium Security Prison.

N. Y., White Plains—See "Sewers."

N. D., Williston—Apr. 4, by D. C. Poling, city aud., improving waterworks, incl. furnishing materials, constructing buildings, basins, mixing tanks, and equipment, covers for present basins, piping and structures; furnishing, installing filter equipment, incl. piping, valves, controllers, etc.; furnishing, superintending erection sludge, removing equipment; furnishing one 900 g.p.m. high service pump, one 3,000 g.p.m. wash pump; one 800 g.p.m., one 400 g.p.m. low service pump. Burns & McDonnell, 406 Interstate Bldg., Kansas City, engrs. Noted Sept. 11, 1930.

O., Trotwood—Apr. 1, by Village, one 15,000 gal. water tank (standpipe); 1,075 ft. 4 in. and 3,000 ft. 8 in. c.i. pipe, hydrants, valves. $8,000. H. C. Wight, Union Trust Bldg., Dayton, engr.

Okla., Pawnee—Apr. 18, by City Council, water supply project, incl. earth dam, concrete spillway, 8,000 ft. pipeline. $200,000 available. W. R. Holway & W. F. McMurry, 302 East 18th St., Tulsa, engrs. Noted Mar. 24.

CONTRACTS AWARDED

Calif., Ojai—Ojai Mutual Water Co., constructing 15,000 ft. 12 in. pipe line from city reservoir to pumping plant, to Thomas Haverty Co., 8th St. and Maple Ave., Los Angeles; furnishing pipe, to American Cast Iron Pipe Co., 412 West 6th St., Los Angeles. Est. $25,000.

Conn., Waterford—W. A. MacKenzie, engr., 390 North Main St., Wallingford, furnishing, installing 16,590 ft. 6 and 8 in. pipe, to P. G. Mono & Co., Inc., 23 Orchard St., New London, $34,538; 100,000 gal. elevated steel water tank, to Pittsburgh-Des Moines Co., Neville Island, Pa., $8,920. Noted Mar. 3.

Mass., Billerica—Town, driven well system, to P. D. Bowler, 37 West Van Buren St., Chicago, Ill. Est. $30,000.

N. J., Chatham—Boro Council, Boro Hall, builing for deep well, pump and valve chamber, to Bontempo & D'Annunzio, 39 Washington St., Morristown; equipment, to Kelley Well Co., Grand Island, Neb. Total est. $22,000. Noted Feb. 25.

N. Y., North Creek—Water Comrs. North Creek Water Dist., at rooms Barton Fire Dist. Hose Co., waterworks, to H. Dumary, 30 Ontario St., Albany; pipe, to R. D. Wood & Co., 400 Chestnut St., Phila., Pa.; hydrants, to Ludlow Valve Co., foot Adams St., Troy; tank, to Chicago Bridge & Iron Wks., Old Colony Bldg., Chicago, Ill.; valves, to Michigan Valve Mfg. Co., 3631 Parkinson St., Detroit, Mich. Total cost $65,000. Noted Feb. 11.

Pa., Ambridge—Ambridge Water Comn., furnishing erecting 75,000 gal. elevated water tank, to Pittsburgh Des Moines Steel Co., Neville Island, Pittsburgh.

Utah, Salt Lake City—City Comrs., c.i. main extensions in 5th St. S. and 8th St. N., to J. J. Burke, Kearns Bldg., $49,950. Est. $58,000.

Que., Masson—City Council, water distribution system, to Farley & Grant, Banque Nationale Bldg., Ottawa, Ont., $65,000. Noted Mar. 10.

SEWERS

PROPOSED WORK

Ill., Barrington—City new sewerage disposal plant or addition to present plant. $30,000. E. Hancock, 1509 West Jackson Blvd., Chicago, engr.

Ill., Peoria—City Council, 25,134 ft. 8- to 27-in. storm and sanitary sewers; 2,805 12 in. inlets, 53 sanitary, 15 drop and 68 storm manholes, 100 inlets, 67 cu.yd. concrete, 12,000 cu.yd. excav., in Reservoir Heights Dist. 7. $88,000. H. Hunt, City Hall, engr.

Ind., Tipton—City preparing plans sewage disposal plant. $50,000. L. J. Richards, Tipton, engr.

Kan., Kansas City—City Council bids in spring or summer 2,189 ft. 15 to 30 in. sewers in 7th and Walker Street Storm Sewer Dist. and Sewer Dist. 17, $11,000; grading, curbing, guttering, 2 in. asphaltic concrete, 3 in. brick, 2 in. rock asphalt on 8 in. concrete, 10 in. plain concrete or 9 in. rein.-con. paving 19,000 sq.yd. 7th Street Trafficway from point 18 ft. north of railroad to Quindaro Blvd., 1,550 sq.yd. 14th St., 1,900 sq.yd. Greeley Ave., 3,500 sq.yd. 42nd St, $103,000; culvert, bridge material and widening 7th Street bridge over Jersey Creek, $10,500. C. E. Peterson, City Hall, engr.

Mass., Salem—South Essex Service Bd., Fort Ave., rebuilding pumping station at Salem Willows. $50,000.

Minn., Austin—City 5 blocks 30 and 36 in. vitr. storm sewer; 5,500 lin.ft. 15 to 24-in. vitr. storm sewer; 5 blocks 8 in. vitr. sanitary sewer laterals. $25,000. G. L. Brown, city engr.

Minn., Duluth—City made plans chlorination plant, South 1st Ave. east along lake shore; treatment plant with sludge digestion tanks, heating plant, incinerator, at 25th Ave. west and bay front; 4 pumping stations. $310,000. J. Wilson, city engr.

Ore., Salem—City wants to hear from engineers and contractors as to sanitary sewage disposal plant, with estimate of cost.

Pa., Chester—City plans sewer, Contr. 16. $200,000. **Maturity soon.** R. E. Heacox, city engr.

Pa., Mill Creek—Mill Creek Twp. sewerage system. Hill & Hill, Marine Bank Bldg., Erie, engrs.

Pa., Pittsburgh—See "Unclassified Buildings."

R. I., Bristol—Town bids in April, sewage disposal plant. $225,000. H. K. Barrows, 6 Beacon St., Boston, Mass., engr. Noted Feb. 4.

Tex., Tyler—City, c/o L. R. Powell, mgr., soon takes bids sewage disposal plant enlargement. H. L. Thackwell, Jacksonville, engr. Noted Jan. 7.

Ont., London—W. P. Near, city engr., preparing plans altering and constructing addition to sewage disposal plant, incl. new outlet sewer storm clarifier pump, settling tanks. $50,000. Noted Sept. 10.

Ont., Toronto—Council passes by-laws, sewers, curbing, pavements, $2,038,274; paving Bayview East, 100,600; harbor development sewers $388,550.

Que., Montreal—City Council sewers in Tolhurst, Daze, Verville $140,000, Clanranald, Plamondon $110,000; Gouin Blvd. de Salisbury $274,000.

BIDS ASKED

Calif., Los Angeles—Mar. 30, by Bd. P. Wks., City Hall, Sect. 34-E North Outfall Sewer, Type 1, constructing 13,225 lin.ft. vitr. clay sanitary sewer, incl. concrete reinforcement, if required; also structures; Type 2, 13,225 lin.ft. centrifugal concrete sanitary sewer, incl. structures; Type 3, 13,225 lin.ft. sanitary sewer, incl. 7,975 lin.ft. cement sewer and 5,250 lin.ft. vitr. clay or centrifugal concrete sewer, concrete rein.-forcement, if required, also structures. Above

See proposal advertising on page 53

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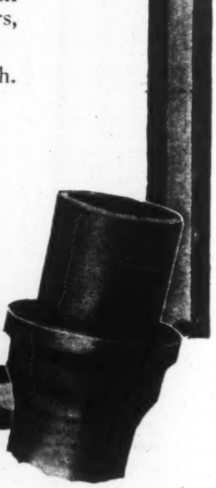

Sewers (Continued)

sewer project includes 13,223 ft. 15 and 18 in. pipe, 8,000-D loading pipe. To exceed $25,000. J. J. Jessup, City Hall, engr.

Calif., Los Angeles—Mar. 30, by Bd. P. Wks., City Hall, 26,306.77 ft. sewers in Venice Blvd. between Sawtelle Blvd. and Centinela Ave. and other streets in Venice and Lincoln Boulevard Sewer Dist., incl. 17,628 ft. 12- to 27-in. vitr. main line sewer, 3,300 ft. 8 in. concrete main line sewer, 5,734 ft. 6 in. concrete house connections, 39 standard and 5 drop manholes, 43 standard junction chambers, 8 standard flushing structures, 95 standard manhole frames, 4 existing structures to be remodeled, twelve 10 x 6 in. saddles, 186 vert. ft. 6 in. chimney pipe. To exceed $25,000. J. J. Jessup, City Hall, engr.

Conn., Greenwich—Town, P. L. Minor, comr. roads, taking bids (from local contractors) concrete drain in Main St. $50,000. S. E. Minor & Co., Smith Bldg., engrs.

Md., Baltimore—Mar. 30, by Bd. Awards, sanitary sewers, storm water drains in Sewer Dists. H-8, H-9, H-11 and H-12, Sanitary Contr. 288, incl. 2,820 lin.ft. 6 x 4 ft. rectangular rein.-con. drain, 440 lin.ft. 42 diam. reein.-con. pipe drain, 500 lin.ft. 18 and 21 in. vitr. pipe drain, 3,000 lin.ft. 15 in. diam. vitr. pipe sewer and drain, 24,285 lin.ft. 6 and 8 in. vitr. pipe sewer. G. E. Finck, Municipal engr., sewerage engr.

Mass., Canton—See "Contracts Awarded."

N. J., Boonton — Apr. 2, by Bd. Sewerage, 4,300 lin.ft. 8 and 10 in. vitr. tile sewers, manholes, appurtenances; 5,000 ft. house connections and restoring street surfaces left unfinished by abandoned contract. Clyde Potts, 30 Church St., New York, consult. engr.; adv. E. N.-R. Mar. 24.

New York—Apr. 8, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, furnishing, installing drainage equipment for Line A from Bway. to Jay St. and Line B from Concord St. to Avenue C, forming part Independent System City-owned Rapid Transit Railroads, Manhattan and Brooklyn Boros.

N. Y., Brentwood—Apr. 13, at office Dpt. Mental Hygiene, State Office Bldg., Albany, sewers and water lines at Pilgrim State Hospital, Suffolk Co.; adv. E. N.-R. Mar. 24.

N. Y., Warwick—Apr. 12, at office Dpt. Social Welfare, C. H. Johnson, comr., State Office Bldg., Albany, sewage disposal plant, at New York State Training School for Boys; adv. E. N.-R. Mar. 24.

Tex., Dallas—See "Contracts Awarded."

Wis., Sheboygan—See "Contracts Awarded."

BIDS RECEIVED

Colo., Denver—Dpt. Improvements & Parks, Mar. 16, constructing about 12 mi. main and sub-main sewers, manholes, for storm drains in Park Hill Storm Sewer Dist., from Construction Service, Inc., & Associates, 401 Tramway Bldg. $1,074,293. Noted Mar. 10.

CONTRACTS AWARDED

D. C., Wash.—District Comrs., District Bldg., Sects. 7 and 8 Michigan Ave. Valley and East Brookland Stormwater Sewers, also 2nd Street Service Sewer, to W. F. Brenizer Co., 1501 South Capitol St., $52,124 and $1,473 respectively; 45th and Davenport Streets Service Sewer and Dahlia St. stormwater sewer, to R. D. Schlegel $1,721 and $1,834 respectively; 25th Street Replacement Sewer, to R. G. Lassiter & Co., Raleigh Bank & Trust Co., Raleigh, N. C., $3,457. Grand total $60,609. Noted Feb. 4.

Kan., Hutchinson—City Council, intercepting mains and sub-sewers in various streets, to Stamey Constr. Co., 101 East 8th St. Est. $45,000. Noted Feb. 18.

Md., Baltimore—Bd. Awards sanitary sewers and storm drains, Storm Water Contr. 174, to Ryan Constr. Co., Real Estate Trust Bldg., Phila., Pa., $30,566. Noted Feb. 25.

Mass., Boston—Metropolitan Dist. Comn., 20 Somerset St., Sect. 121 New Neponset Valley Sewer, South Metropolitan System, Canton and Stoughton, to V. Barletta Co., 8 Whipple Ave., Jamaica Plain, $53,023.

Mass., Canton—Town, sewerage system extension, part of 3-year program, day labor. $33,000. W. H. Howard, 89 Broad St., Boston, engr. Noted Feb. 25.

Mo., St. Louis—Bd. P. Serv., City Hall, Sect. H4, River Des Peres Project, to S. Kraus Co., 645 Edmund St., $7,618. Noted Feb. 18.

Pa., Polk—Bd. Educ. Polk State School, general contract concrete tunnel, steel pipe racks, sanitary sewer, pipe, expansion joints, fittings, electric power and lighting conduits, cable, wire, switches to Phelps & Son, 6319 Michigan Ave., Detroit, Mich., $55,000; piping, to F. P. Andrews & Son, East St., New Castle, electrical work, to Delmar Electric Co., 228 East 8th St., Erie. Est. $70,000. Noted Aug. 14.

Tex., Dallas—City, c/o O. H. Koch, dir. P. Wks., 72 and 62 in. monolithic storm sewer, Peaks Branch Dist. 28-B, from Barry and Lindsley Sts. to Lindsley east to Fairview St., to Carter-Humphreys Co., Jefferson Hotel, $19,261 est. $25,000; 48, 54 and 57 in. monolithic sanitary sewer Peaks Branch, Dist. 48-B, from Peaks Branch and Pa. to Barry and Lindsley Sts., to J. Lee & E. A. Vilbig, 2517 Eakin St., $107,948 est. $110,000.

Tex., Dallas—City, c/o O. H. Koch, dir. P. Wks., sanitary sewer in Olive-Phelps St., Live Oak to Cedar Springs, in advance of paving, own forces. $28,825.

Va., Richmond—R. K. Comton, dir. P. Wks., 1111 East Broad St., Beacon Quarter Branch Relief Sewer, to R. G. Lassiter & Co., Raleigh Banking & Trust Bldg., Raleigh, N. C., $118,028 (using local labor); furnishing, delivering 28,000 gal. glazed, vitr. clay liner plates and 35,000 bbl. Standard and 1,500 bbl. high early portland cement, to Massey Builders Supply Corp., 3612 West Broad St., $3,148 and $66,000 respectively. Grand total $181,176. Noted Mar. 3.

Wis., Sheboygan—City, box sewer 4½ ft. x 7 ft. in cross section in Illinois Ave. and South 13th Sts., day labor. $65,000. A. L. Boly, city engr.

Ont., Islington—Etobicoke Twp., 3.3 mi. 9- to 24-in. vitr. tile sewer, and 0.8 mi. 4- to 6-in. force mains in Humber Bay Area, to Sinione Contg. Co. Ltd., 15 Trent Ave., Toronto. Est. $50,000. Noted Jan. 21.

WASTE DISPOSAL

PROPOSED WORK

Ont., Toronto—By-laws to be submitted to ratepayers for refuse disposal plant. $600,000.

BRIDGES

PROPOSED WORK

Colo., Pueblo — D. P. Gaymon, city engr., recommends to City Council, c/o G. W. Clark, clk., that C and South Main Street Viaducts be dismantled and replaced by rein.-con. structures, present viaducts inadequate and must soon be condemned. Est. $200,000 to $300,000 and $250,000 to $300,000 respectively.

Kan., Kansas City—See "Sewers."

Mass., Abington—Town, Bd. Selectmen, bridges, hys. $25,000 appropriated.

Mass., Amherst — Town, Bd. Selectmen, bridges, hys. $25,000 appropriated.

Mass., Bedford—See "Waterworks."

Mass., Bourne—Town, bridges, new roads, $25,250 appropriated.

Mass., Canton—Town, Bd. Selectmen, bridges, new roads. $31,000 appropriated.

Mass., Cohasset—Town, Bd. Selectmen, bridge, hy. $34,000 appropriated.

Mass., Easton—Town, Bd. Selectmen, bridges, hys. $44,680 appropriated.

Mass., Hull—Town, Bd. Selectmen, bridge, hy., sidewalks. $55,300 appropiated.

Mass., Ipswich—Town, Bd. Selectmen, bridges, hys. $25,000 appropriated.

Mass., Marblehead — Town, Bd. Selectmen, bridges and hys. $45,000 appropriated.

Mass., Marshfield — Town, Bd. Selectmen, bridges, hys. $25,000 appropriated.

Mass., Middleboro — Town, Bd. Selectmen, bridges, hys. $34,800 appropriated.

Mass., Randolph—See "Waterworks."

Mass., Wareham — Town, Bd. Selectmen, bridges, hys. $39,300 appropriated.

Mass., West Bridgewater—See "Waterworks."

Mass., Westwood—See "Waterworks."

Mass., Worcester—City, E. W. Jenkins, comr. street dpt., preparing plans rein.-con. bridge over Boston & Maine R.R., Northboro St., reconstructing underpass, Brooks St. $25,000 or more. R. Lingley, City Hall, engr.

Mo., St. Louis—Bd. P. Serv. and St. Louis-San Francisco Ry., F. G. Jonah, ch. engr., Frisco Bldg., St. Louis, preliminary plans rein.-con. bridge to carry Wellington Ave. over railroad tracks and bridge to take railroad over River Des Peres Sewer Project. $75,000.

Okla., Blackburn—Bd. Supervs. Pawnee Co., Pawnee, preliminary plans bridge, steel trusses on concrete piers over Arkansas River. $175,000. O. F. Sewell, Pawnee, engr.

Texas—State Hy. Comn., W. R. Ely, chn., Austin, soon takes bids steel, concrete bridge, 22 ft. roadway over Guadalupe River, Hy. 9, Federal Aid Project 631-B, Boerne, Kendall Co. $130,000. V. N. Schulz, Boerne, resident engr.

Texas—State Hy. Comn., W. R. Ely, chn., Austin, steel, concrete highwater bridge over North Sulpher River, Hy. 24, Lamar and Delta Counties. G. G. Wickline, Austin, bridge engr.

Texas—State Hy. Comn., W. R. Ely, chn., Austin, preparing plans 3 steel, concrete bridges, 40 ft. structure on Hy. 40, near north line Denton Co., 180 ft. bridge on Hy. 10, between Denton and Forth Worth, and 300 ft. bridge on Hy. 40, north of Denton, all structural steel I-beams, concrete floor structures, Denton Co. $25,600 funds appropriated. C. Rice, Records Bldg., Dallas, div. engr.

Ont., Ottawa—Town, N. Cauchon, town planning engr., preparing plans bridge over Rideau Canal, at Frank St. **Maturity 1933.**

Ont., Toronto—By-laws to be submitted to ratepayers for bridge over Strathgowan Ave., $249,000; bridge over Canadian Pacific R.R., $128,140.

BIDS ASKED

California—Apr. 6, by C. H. Purcell, engr. State Hy. Comn., Sacramento, one 30 ft. and one 21 ft. span rein.-con. girder bridge on concrete piers, abutments, with wing walls 2 mi. north of Mountain View, Santa Clara Co.

Indiana—See "Streets and Roads."

Iowa—Mar. 29, by State Hy. Comn., Ames, 70 x 20 ft. pony truss bridge with two 40 x 20 ft. I-beam approach spans, raising and shifting 32 x 20 ft. I-beam bridge, constructing 24 culverts, extensions, Rd. 148, Federal Aid Project 348, Cass Co.—90 x 20 ft. skew plate girder bridge, three 40 x 24 ft. span I-beam bridge, two 160 x 20 ft. high truss spans with twelve 50 x 20 ft. I-beam approach spans or two 142 x 20 ft. high truss spans with twelve 50 x 20 ft. I-beam approach spans, also 14 concrete pipe culverts, Rd. 76, Federal Aid Project 338, Muscatine and Louisa Counties—50 ft. concrete arch bridge, 16 culverts, extensions, Valley Junction Rd., Federal Aid Project 340, Polk Co. C. R. Jones, aud.

Kan., Emporia—See "Contracts Awarded."

Maine—Mar. 29, by State Hy. Comn., Augusta, Winnegance Bridge over Winnegance Stream, Bath and Phippsburg, involving pile trestle, 2,500 lin.ft. creosoted piling, 41,000 ft. lumber, 122,000 lb. steel, 7,170 cu.yd. fill, dam and spillway, 16,380 cu.yd. fill, 218 cu.yd. concrete, 140 cu.yd. Ashler masonry.

Minn., Wabasha—Apr. 5, by State Hy. Dpt., St. Paul, overhead structure State Project 3-24-2, Bridge 5150. $25,000.

Neb., Aloa—Mar. 31, by State Hy. Dpt., Lincoln, and Hall Co., Grand Island, 2 bridges over Platte River, near here, and improving North Alda State Aid Project. R. L. Cochran, Lincoln, state hy. engr.

Texas—State Hy. Comn., W. R. Ely, chn., Austin, bids about Apr. 4, steel, concrete bridge over Comanche Creek, 22 ft. roadway, Hy. 9, Federal Aid Project 17 Re-opened, Mason, Mason Co. $57,000. G. G. Wickline, Austin, bridge engr.

Texas—State Hy. Comn., W. R. Ely, chn., Austin, bids about Apr. 4, or 5, 7 span, concrete, steel bridge to have one 120 ft. steel truss span and six 30 ft. 6 in. concrete girder spans, 22 ft. roadway over Blanco Creek, Hy. 3, Federal Aid Project 289 Re-opened, Uvalde, Uvalde Co., $38,000. G. G. Wickline, Austin, bridge engr.

Tex., Hillsboro—Hill Co. taking bids 60 ft. steel, concrete vehicular bridge, 18 ft. roadway. Address G. Mann, Hillsboro, co. aud.

Tex., Uvalde—Uvalde Co. and State bids about Mar. 28, 2,500 ft. rein.-con. vehicular bridge, having 850 ft. main span, 2 relief openings over 900 ft. in. length and fills of over 1,600 ft. length, Hy. 90, 8 mi. west of here. $150,000. Address County Engineering Dpt., Uvalde, engrs.

Wis., De Pere—Mar. 28, by State Hy. and Unemployment Comns., Madison, 1,563 tons structural steel, 55,850 lb. cast steel, 3,953.25 lin.ft. ornamental railing, 21,000 lb. operating machinery, etc., f.o.b. cars De Pere, for De Pere Bridge Div. Job 3390, U. S. Hy. 41, Contr. 3, Brown Co. Former bids rejected. Noted Mar. 10.

Ont., Englehart—Apr. 20, by Dpt. Northern Development, Parliament Bldg., Toronto, excavating, piling, rein.-con. piers and abutments, fabrication and erection steel superstructure, 800 ft. high level bridge over Blanche River. $150,000. C. H. Fullerton, Dpt. Northern Development, Toronto, engr.

CONTRACTS AWARDED

Florida—State Roads Dpt., Tallahassee, bridge to have one hundred twenty-two 25 ft. steel I-beam spans and one 40 ft. channel span, concrete deck on creosoted pile bents, Rd. 54, Project 819-B, Okaloosa Co., to Penton-Mathis Constr. Co., Florala, Ala., $92,638. Noted Feb. 18.

Ill., Chicago—Bd. Comrs. Cook Co., County Bldg., Crawford Ave., Calumet Sag Channel Bridge, Pratt type steel bridge with roadway approaches at Blue Island, Sect. 051-1212-15D, and 2 span rein.-con. arch bridge with rubble stone arch facing at Edgebrook, Sect. 046-10106-15D, to E. J. Albrecht Co., 2632 West 26th St., $145,829 and $54,986 respectively.

Indiana—State Hy. Comn., Indianapolis, 20 ft. span rein.-con. slab bridge over Riggan Creek, Contr. 463, Boone Co., to Dean Bros., Batesville, $3,410 est. $4,794—steel truss bridge over Solomon Creek, Contr. 461, Elkhart Co., to Moellering Constr. Co., 241 Murray St., Ft. Wayne, $6,128 est. $8,417—70 ft. rein.-con. arch bridge over Offield Creek, Contr. 467, Montgomery Co., to G. V. Vaughn, Lafayette, $9,885 est. $13,061. Grand total $19,423. Noted Feb. 11.

Indiana—State Hy. Comn., Indianapolis, 2 rein.-con. girder bridges, Contr. 462, Bartholomew Co., to A. E. Hutton, North Vernon, $12,865. Est. $19,195. Noted Feb. 11.

Iowa — State Hy. Comn., Ames, bridges in Madison Co., to Ben Cole & Son, Ames, $57,962 —Lucas Co., to Duvall & McKinney, Logan, $6,345, culverts in Lucas Co., to L. Peterson, Cedar Rapids, $18,887—on F.A.B. 75 and 7, Marion Co., to C. Jensen, Thompson, $2,595 and $8,746 respectively — culverts, also raising, widening bridge, Wright Co., to Hildebrand & Kragh, Belmond, $8,360. Grand total $102,895. Noted Mar. 10.

Kansas—See "Streets and Roads."

Kansas — State Hy. Comn. Ft. Dodge (**P. means Project and F.A.P. Federal Aid Project**), Bridge 1, P. 21-9, F.A.P. 440-D Hodgeman Co. and Bridge 2, P. 21-10, F.A.P. 440-A Ness Co., to List & Clark Constr. Co., Kansas City, Mo., $3,216 and $15,782 respectively—Bridge 1, P. 21-10, F.A.P. 440-A Ness Co., to O. K. Parsons, Altamont, $14,965—Bridge 1, P. 21-10, F.A.P. 440-F, Ness Co., to W. B. Honska, Concordia, $20,112. Grand total $54,075.

Kansas—State Hy. Comn., Court House, La Crosse (**P. means Project and F.A.P. Federal Aid Project**), to A. L. Cook, Ottawa, Bridge 1, P.

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Bridges (Continued)

1-11, F.A.P. 443-B Rush Co. $3,217; Bridge 3 same road $4,765; Bridges 1, 2 and 3, P. 1-10, F.A.P. 443-A $3,907; Bridge 1, P. 50N-10, F.A.P. 295-A $4,060, all foregoing Pawnee Co. —to C. L. Ring, McPherson, Bridge 2, P. 1-11, F.A.P. 443-B, Rush Co. $25,352. Grand total $41,301.

Kan., Emporia—Bd. Supervs. Lyon Co., W. F. Hanna, clk., will build various concrete bridges ranging from 5 ft. boxes to 70 ft. spans, during period from Mar. 15 to Oct. 1, by day labor.

Maine—State Hy. Comn., Augusta, Bruce Bridge, Hollis-Dayton, to Stewart & Williams, Inc., Augusta, $5,190, Higgins Bridge, Gorham, to F. W. Fleming, Scarboro, $4,166—Davis Mill Bridge, Gorham, to Tidewater Constr. Co., Yarmouth, $4,997—Sucker Mill Bridge, Liberty, to James Frederick & Co., Pittsfield, $4,468—Marston Bridge, Waterville-Oakland, to Cyr Bros., Waterville, $10,929—Welchville Bridge, Oxford, to C. Metivier, Rumford, $13,494. Grand total $43,244. Noted Mar. 10.

Maryland — State Roads Comn., Baltimore, triple span concrete girder bridge over Elk River on Bridge St., Contr. Ce-112-26, Cecil Co., to Winfield Stander & Co., 1431 Bway., New York, $29,654; bridge tender's house to be built on south side of bridge over Bohemia River, Contr. Ce-108-2-27, Cecil Co., to J. Smith, Cecilton, $1,798. Noted Dec. 10 and Mar. 10.

Maryland—State Rds. Comn., Baltimore, structural steel superstructure for bridge over Monocacy River, Frederick Co., to Pittsburgh-Des Moines Steel Co., Neville Island, Pittsburgh, Pa., $14,440. Noted Feb. 25.

Mass., Worcester — City, Street Dpt., City Hall, rein.-con., steel bridge, Southbridge St., to Eastern Bridge & Structural Co., 88 Crescent St. Est. exceeds $25,000.

Michigan—H. W. Hagaman, div. engr., Saginaw, MBr. 1 of 79-7-4 Contrs. 2 and 3, 75 ft. span, steel deck girder, with 2 semi-gravity type rein.-con. abutments, 30 ft. roadway, two 2½ ft. sidewalks over Cass River, Tuscola Co., for State Hy. Comn., Lansing, Contr. 2, to McClintic-Marshall Corp., 1242 Book Bldg., Detroit, $2,841; Contr. 3, to Murray & Fremont, Bad Axe, $15,438. Noted Feb. 18.

Michigan—H. G. Oakes, div. engr., Plymouth, MBr. 1 of 47-10-2, Contrs. 2 and 3, 40 ft. span, steel deck girder, incl. extending existing abutments with 2 rein.-con. abutments, 40 ft. roadway, two 6 ft. sidewalks over Shiawassee River, Livingston Co., for State Hy. Comn., Lansing, Contr. 2, to Lackawanna Steel Constr. Corp., Walden Ave., Buffalo, N. Y., $827; Contr. 3, to M. W. Cochran, Bloomfield Hills, $12,949. Noted Feb. 11.

Neb., Bridgeport—Morrill Co. and State Dpt. P. Wks., Lincoln, widening bridge over North Platte River, to Western Bridge & Constr. Co., 3867 Leavenworth St., Omaha, $21,490.

Neb., Columbus—Platte Co., construction and reconstructing bridges in Monroe, Joliet, Woodville South Walker, Burrows, Humphrey, Grand Prairie, Creston, Sherman, Lost Creek and Bismark Twps., to L. E. McBride, 1948 K St., Lincoln, $22,163; 8,000 cu.yd. channel change excavating Bismark Twp., to Carstenson Sand Co., Columbus, $800. Est. $30,080. Noted

N. Y., New York—Park Bd., W. R. Herrick, pres. Park Dpt., Arsenal Bldg., Central Park, 3 bridges and comfort stations, Fort Tryon Park, to Marc Eidlitz, 100 East 42nd St., est. $150,000 and $40,000 respectively. Contractor sublet bridges to A. A. Johnson, 3rd and West Aves., Long Island City. Will relet contract for comfort stations by general contract bids late in summer. Project is part of gift by J. D. Rockefeller, Jr. Noted Mar. 10.

Ohio—O. W. Merrell, dir. Hys., Columbus, creosoted timber bridge with steel stringers over Ross Run, Sect. "G" Athens-Hockingsport Rd., Athens Co., to Pringle Constr. Co., Batavia, $4,919; three 36 ft. spans, concrete beam bridge, 29 ft. roadway, and two 3 ft. sidewalks, over Indian Creek, Sect. "Millville," Oxford-Millville Rd., Butler Co., to G. W. Timmons, 463 East Hudson St., Columbus, $30,505. Noted Feb. 25.

Oregon—State Hy. Comn., Portland, bridge over Clackamas River, Clackamas Co., to Lindstrom & Fiegenson, Portland, (a) $165,475 or (b) $167,417.

Virginia—State Hy. Dpt., Richmond, Fox Creek Bridge, to Hobbs-Peabody Constr. Co., Inc., Charlotte, N. C., $10,516—Peggy Branch Bridge, to Perkins-Barnes Constr. Co., Inc., Blacksburg, $5,595—Bridle Creek Bridge, to Beasley & Crowder, Galex, $3,993, all above in Grayson Co. Grand total $20,094. Noted Feb. 25.

STREETS AND ROADS

BIDS ASKED

California—Mar. 30, by State Hy. Comn., Sacramento, grading, oil treated crushed gravel or stone surfacing 3.7 mi. road between Blythe and Ehrenberg Bridge, Riverside Co.; grading, concrete paving 7.5 mi. road between Bostonia and Chocolate Creek, San Diego Co. C. H. Purcell, hy. engr.

California—Mar. 31, by J. H. Skeggs, dist. engr. State Hy. Comn., State Bldg., San Francisco, treating with fuel oil as dust palliative 19.1 mi. Mt. Diablo Park, Contra Costa Co.

California—Apr. 6, by State Hy. Comn., Sacramento, grading, concrete surfacing 8.3 mi. road between Avenue 62 and Avenue 74, Riverside Co.—bituminous treated crushed gravel or stone (plant mix) surfacing 6.7 mi. road between Lincoln and Sheridan, Placer Co.—grading, bituminous treated crushed gravel or stone (plant mix) on crusher run base surfacing 8.7 mi. road between Hat Creek Summit and Fall River, Shasta Co. C. H. Purcell, hy. engr.

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Calif., San Jose—Apr. 4, by H. Pfister, clk. Santa Clara Co., oil macadam surfacing 41,291 sq.ft. Piercy Rd.

Calif., San Jose—Apr. 4, by H. Pfister, clk. Santa Clara Co., oil macadam surfacing 322,990 sq.ft. Rincon and McCoy Aves., et al.

Delaware—Apr. 5, by State Hy. Dpt., Dover, grading, borrow, laying concrete 4.32 mi. Fieldsboro-Drawyers Rd., Contr. 182C, Kent Co.—grading, borrow, laying road 3.36 mi. Dublin Hill-Jacobs Cross Roads, Contr. 153, New Castle Co. —grading, borrow, concrete paving 4.8 mi. Bryan's Store-Hardscrabble Rd., Contr. 187—clearing, grubbing, grading, borrow 4.38 mi. Fisher's School-Farmington Rd., Contr. 226, both Sussex Co.—borrow and laying sidewalk 2,900 ft. North 3rd St., Contr. 251, Sussex and Delmar Counties; adv. E. N.-R. Mar. 24.

Ill., Danville—Apr. 4, by Bd. Supervs. Vermilion Co., concrete surfacing 1.25 mi. 1-M.F.T. —3.5477 mi. 5-15d—1.663 mi. 7-M.F.T.—3.66 mi. 15-15d—4.135 mi. 21-M.F.T.—1.171 mi. 22-15d. G. H. Baker, c/o State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, engr. county roads.

Ill., Mt. Carroll—Mar. 30, by Bd. Supervs. Carroll Co., traffic bound surfacing 3 mi. 4-M.F.T.; 2.4 mi. 5-M.F.T. G. H. Baker, c/o State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, engr. county roads.

Ill., Nashville — Mar. 30, by Bd. Supervs. Washington Co., traffic bound surfacing 1.5647 mi. 3-M.F.T. G. H. Baker, c/o State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, engr. county roads.

Ill., Taylorville — Apr. 1, by Bd. Supervs. Christian Co., concrete surfacing 2.56 mi. 3-M.F.T., also constructing 9 rein.-con. box culverts, 2 rein.-con. slab bridges. G. H. Baker, c/o State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, engr. county roads.

Indiana—Apr. 5, by J. J. Brown, dir. State Hy. Comn., Indianapolis, paving 0.3 mi. approaches to Monon Railroad Overhead crossing, U. S. Hy. 40 Putnam Co.—3.25 mi. approaches to Ohio River Bridge at Evansville, Ind., U. S. Hy. 41, Vanderburg Co. and Henderson Co., Ky. —33 mi. State Rd. 6, Laporte, St. Joseph and Marshall Counties—9 mi. State Rd. 28 from Attica to Odell, Fountain and Tippecanoe Counties—6.8 mi. State Rd. 32 from Noblesville to Anderson, Hamilton and Madison Counties—12.7 mi. State Rd. 37 from Tell City to Leopold, Perry Co.—6 mi. State Rd. 159 from Riley to Blackhawk, Vigo Co.—resurfacing 3.5 mi. Roads 2 and 30 from Ft. Wayne northeast Allen Co.—2.7 mi. State Rd. 9 from Marion south, Grant Co.—4 mi. State Rd. 28 from Ellwood east, Madison Co.—5 mi. State Rd. 7 from Columbus southeast, Bartholomew Co.—4.3 mi. U. S. Hy. 52 from Rushville southeast, Rush Co.—3.8 mi. U. S. Hy. 41 from Sullivan south, Sullivan Co. —grading, drainage structures 5 mi. State Rd. 35 from Nashville to Bean Blossom, Brown Co. $2,500,000. W. J. Titus, ch. engr.

Ind., Boonville—Apr. 4, by Bd. Supervs. Warwick Co., E. Bracher, aud., concrete surfacing E. E. Day Rd. $31,436—Epworth Rd. $8,923—Lincoln Avenue Rd. $16,110—gravel surfacing Schultz Rd. $14,145.

Ind., Danville — Apr. 4, by Bd. Comrs., Hendricks Co., concrete surfacing 1.87 mi. S. J. Moloney Rd. $34,612. C. E. Shields, Danville, aud.

Ind., Indianapolis—Mar. 28, by Bd. P. Wks., City Hall, asphalt, asphaltic concrete or concrete paving 16th St. from Capitol St. to Northwest Ave. $54,000; Lynn St. from New York to Michigan Sts. $9,000. A. H. Moore, City Hall, engr.

Iowa—Mar. 29, by State Hy. Comn., Ames, grading, drainage structures, flumes, sidewalks, paving 4.007 mi. primary road from Valley Junction southwest, F.A.P. 340 Polk Co.—grading, drainage structures 6.92 mi. Rd. 148, F.A.P. 348-B Cass and Adams Counties—14.167 mi. Rd. 76, F.A.P. 338-A and B, Muscatine and Louisa Counties—6.661 mi. Rd. 137, P. 327—12.542 mi. U. S. Rd. 65, Rd. 3, P. 490, both Wayne Co.—11.897 mi. Rd. 137, P-728, Warren Co.—9.615 mi. Rd. 137, P-526, Lucas Co. C. R. Jones, Aud.

Ia., Des Moines—Mar. 31, at office Auditor Polk Co., grading 10.5 mi. county trunk road.

Ia., Ft. Madison—Mar. 31, at office Auditor Lee Co., 106,781 cu.yd. excav. on 12 mi. county trunk road; 14,300 tons gravel or crushed stone on 13 mi. trunk road; 2,005 lin.ft. corrugated culvert pipe.

Ia., Guthrie Center—Mar. 28, at office Auditor Guthrie Co., grading 6 mi. roads, incl. 70,000 cu.yd. earth excav., 45,000 sta.yd. overhaul.

Ia., Maquoketa—Apr. 4, by L. M. Guenther, aud. Jackson Co., grading, drainage structures 4 mi. Trunk Rd. E from Crabtown northeast T.R.P. 6-6; crushed stone surfacing 10.66 mi. Trunk Rd. E, Projects 3, 6-A and D, Brandon, Butlers and Farmers Creek Twps. T. E. Riley, Court House, engr.

Louisiana—State Hy. Comn., Baton Rouge, bids of Oct. 20, 1931, on 78 road projects, approximately 400 mi. gravel roads, totaling $2,482,700, have been rejected. Contracts were awarded but Commission was forced to cancel awards, funds not available. Noted Nov and 19, and Dec. 10 under "Contracts Awar

Maryland—Mar. 29, by State Roads Co G. C. Uhl, chn., Baltimore, concrete paving mi. Contr. AA-113-74, Anne Arundel Co.— mi. Contr. Cl-103-52 Carroll Co.—sheet asp paving 0.43 mi. Contr. BC-115-74, Baltimore —gravel surfacing 1.48 mi. Contr. SM-95 St. Mary's Co.; adv. E. N.-R. Mar. 24.

Maryland—Mar. 30, by Bd. Awards, grad concrete paving 12,000 sq.yd. Beckleysville north of Shemburg Ridge Rd., in vicinity Pr boy Dam, Contr. 614, Baltimore Co. G. Co Municipal Bldg., Baltimore, hys. engr.

Md., Towson—Mar. 29, by Comrs. Baltim Co., Court House, Group 1, concrete shoul 1.7 mi. Back River Neck Rd. from Eastern A to Cape May Rd., 15th Dist. J. P. Gray Court House, engr.

Minnesota—Apr. 5, by State Hy. Comn., Paul, grading, culverts, concrete paving 158 sq.yd. State Project 3-53, Sect. 2, F.A.P. and S.P. 3-53 Sect. 1 F.A.P. 27B—76,700 sq S.P. 3-61, F.A.P. 29—117,400 sq.yd. S.P. 4 Div. A, F.A.P. 405A and S.P. 8-25, Div. F.A.P. 57—126-460 sq.yd. S.P. 6-47, F.A 388A—237,960 sq.yd. S.P. 8-34, F.A.P. 302 S.P. 8-52, Sect. 1, F.A.P. 278 and S.P. 30 Div. B, F.A.P. 271—247,546 sq.yd. S.P. 8-52 F.A.P. 278, S.P. 8-42, F.A.P. 302B and S 8-39, Div. A, F.A.P. 302B—158,690 sq S.P. 14-25, Sect. 2, Div. B, F.A.P. 425B S.P. 14-25, Sect. 1, Div. A, F.A.P. 425A 136,580 sq.yd. S.P. 14-25-1, Div. B, F.A 425A.—109,667 sq.yd. S.P. 15-33 Sect. F.A.P. 72, S.P. 15-33, Sect. 3, Div. A, F.A 196—167,436 sq.yd. S. P. 15-33-3, Div. F.A.P. 196, S.P. 15-33, Sect. 2, F.A.P. 41 and S.P. 15-34, Sect. 2—102,310 sq.yd. S 20-25 Div. B, F.A.P. 250—232,840 sq S.P. 20-37, Sect. 1, F.A.P. 39 and S.P. 20- Sect. 2, F.A.P. 137—177,600 sq.yd. S.P. 30- F.A.P. 50 and S.P. 30-27, Div. A, F.A.P. 27 —grading 11.5 mi. S.P. 3-41, Div. A—11.1 S.P. 4-44 Sect. 2—2.9 mi. S.P. 4-46, Sect. 1—11.6 mi. S.P. 8-48, Sect. 2, Div. B—7.3 S.P 8-48, Sect 1—10 mi. S.P. 25-28, Sect. State furnishes cement.

Mo., St. Louis—Apr. 12, by Bd. P. Serv., City Hall, grading, concrete paving 5,100 sq.yd. Hampton Ave. $17,440—2,840 sq.yd. Bittner St $9,800—3,860 sq.yd. Regal Pl. $13,320—vibrolithic concrete paving 1,610 sq.yd. Annetta St $7,320—1,585 sq.yd. Partridge Ave. $6,600—5,725 sq.yd. Hyams Pl. $19,840—warrenite bitulithic paving 5,565 sq.yd. Bent Ave. $19,440—6,725 sq.yd. Leona St. $20,320. W. W. Horner, city engr.

Mo., St. Louis—Apr. 19, by Bd. P. Serv., City Hall, grading, concrete paving alleys in City Blocks 2858, 2934, 3037, 4066, 4192, 4348 4628N, and 5765 $21,370; also electric elevators in City Hospital 1, $14,000. W. W. Horner, city engr.

Nebraska—Apr. 1, by State Hy. Dpt., Lincoln, graveling 68 road projects. R. L. Cochran, Lincoln, state hy. engr.

New York—Apr. 4, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, grading, paving 1.85 mi. Central Westchester Parkway from Westchester Ave. to North Bway. in White Plains and Harrison and North Castle. Contr. 347. J. Downer, Bronxville, ch. engr. adv. E. N.-R. Mar. 24.

N. Y., Fort Edward—J. D. Murray, village trustee, bids in spring grading, draining, 6 in. concrete paving Mechanic St. $123,000. Engineer not appointed.

N. Y., Long Island City—Mar. 29, by G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., grading, curbing, sidewalks, asphalt on concrete paving Hillside and Maurice Aves., 103rd, Van Horn, 63rd, 59th Sts.—sheet asphalt on concrete paving except within railroad area where it shall be granite block on concrete paving Liberty Ave.—constructing concrete railing in connection with Interborough Parkway from Cypress Hills Rd. to Forest Park.

Ohio—Mar. 25, by O. W. Merrell, dir. hys., Columbus, brick paving incl. furnishing, delivering brick 3.74 mi. hy. Ashland Co., $134,066—tar macadam paving 1.065 mi. Mansfield-Galion Rd. $17,366—0.717 mi. Galion-Mt. Gilead Rd., $10,920, both Crawford Co.—2.117 mi. Cuyahoga Co., $61,088—1.078 mi. Huron Co. $29,035—0.346 mi. Richland Co., $16,592—0.6 mi. Scioto Co., $17,330—2.01 mi. Seneca Co., $26,782—2.46 mi. Summit Co., $35,274—concrete paving 0.483 mi. Erie Co. $19,481—3.098 mi. Erie and Huron Counties, $86,104—1.713 mi. Cleveland-Meadville Rd. $17,703—0.937 mi. Cleveland-Canton Rd., $31,707, both Geauga Co. —1.929 mi. Greene Co. $71,642—0.735 mi. Holmes Co. $18,607—2.397 mi. Pomeroy-Marietta Rd. $50,743—1.501 mi. Pomeroy-Jackson Rds., $67,161, both Meigs Co. 6.992 mi. Muskingum Co., $180,228—2.53 mi. Trumbull Co., $49,304—2.162 mi. Vinton Co. $102,157—concrete and waterbound macadam paving 5.459 mi. Sect. "C" National Rd. (West) $134,138—4.508 mi. Sect. "D-2" same road, 108,568, both Madison Co.—concrete slab bridge, concrete paving 2.667 mi. by Mercer Co. $66,915—bituminous macadam paving 3.833 mi. Henry Co. $78,721—brick paving 0.528 mi. Stark Co. $31,205—0.2382 mi. Summit Co. $19,856—0.662 mi. Tuscawaras Co $15,690.

Missouri—Mar. 25, by State Hy. Comn., Jefferson City, grading, asphalt paving 3.977 mi. Eldon Rd. S., Route 54, Sect. 59A—4.524 mi. same road Sect. 58A—4.284 mi. Sect. 60A—0.191 mi. Sect. 61A, all foregoing Miller Co. T. H. Cutler, ch. engr.

Streets and Roads (Continued)

Oregon—Apr. 7, by State Hy. Comn., Salem, grading, surfacing 11 mi. **Merrill-Malin Sect. Dalles-California Hy., $110,000** — **regrading, graveling 6.3 mi. Durkee-Gales Sect. Old Oregon Trail, $154,000—**macadamizing **10 mi. Huntington-Slides Sect. Old Oregon Trail $63,000—5 mi. Hot Lake-Union Sect. Old Oregon Trail, $26,000 —11.08 mi.** Dillon-Biggs Sect. Columbia River Hy., **$85,000.**

Tennessee—Apr. 1, by State Dpt. Hys. & P. Wks., **Nashville, surfac etreating** 8.4 mi. Hy. 48 between Dickson and Charlotte, Dickson Co. —resurfacing 7 mi. Hy. 37 from Hampton eastward, Carter Co.—3 mi. Hy. 2 from Monteagle toward foot of mountain, Marion Co.—7 mi. Hy. 56 from Monteagle northward, Grundy Co. All projects require "mixed in place" surface treatment. R. H. Baker, hy. comr.

Texas—Apr. 5, by G. Gilchrist, state hy. engr., Austin, double bituminous surface treating 176,-000 sq.yd. State Hy. 29, Job No. M-14-K-3, Williamson Co., $35,000; special double bituminous surface treating 230,000 sq.yd. State Hy. 66, Job No. M-14-K-4, Blanco Co., $40,000

Texas—Apr. 5, by G. Gilchrist, state hy. engr., Austin, double bit. surface treating 147,840 sq.yd. Hy. 64, Job M-10-P-6 Rusk Co., $30,000 —175,824 sq.yd. State Hy. 67, Job M-8-S-3 Stephens Co., $25,000—367,344 sq.yd. State Hy. 10, Job M-2-D-4, Erath Co., $62,000.

Tex., Dallas—Apr. 4, by Dallas Co., c/o C. E. Gross, aud., concrete paving 1¼ mi. road from North end Industrial Blvd. to Irving-Fort Worth Bridge, 18 ft. $35,000. R. H. Clinger, Dallas, co. engr.

Washington—April 5, by S. J. Humes, dir. Hys., Olympia, concrete paving 6.3 mi. State Rd. 9, Discovery Bay to Ludlow Rd., F.A.P. 146-A, Jefferson Co.; grading, draining 6.2 mi. State Rd. 13, Cosmopolis to Artic, F.A.P. 187-A, Grays Harbor Co.—830 ft. bridge over Chehalis River, on State Rd. 12, at Adna, Lewis Co.

Wash., Asotin—Comrs. Asotin Co. bids about Apr. 4, constructing 2 mi. Peola Rd. west from Payne Grade. $40,000. J. Swan, Asotin, co. engr.

Wash. Seattle—King Co., bids about Apr. 1, concrete paving 2 mi. Lake Sammamish Hy., West. Shore. $44,000. T. D. Hunt, Seattle, engr.

Wash., Seattle—Comrs. King Co., cancelled bids to have been opened Mar. 28, improving 2 mi. Kummer Cut-off. $25,000. New bids will be called later. T. D. Hunt, Seattle, co. engr. Noted Mar. 17.

Wash., Seattle—City, bids not later than July 1, concrete sidewalks, concrete paving 47,560 sq.yd. Railroad Ave. from Madison to Bay Sts. $600,000 bonds voted for city's share of $1,-200,000 paving project. D. W. Morris, city engr.

Ont., Hamilton—See "Contracts Awarded."

CONTRACTS AWARDED

Arizona—State Hy. Comn., Phoenix, grading, draining, placing subgrade stabilizer on 5.5 mi. Holbrook-St. Johns Hy., Apache Co., to Lewis Bros., Winslow, $37,511.

Arizona—State Hy. Comn., Phoenix, grading, asphalt paving 2.9 mi. Phoenix Tempe Hy., Maricopa Co., to Arizona Sand & Rock Co., South 7th St., Phoenix, $36,973. Noted Mar. 3.

Arizona—State Hy. Comn., Phoenix, mineral aggregate and oil processing 18.75 mi. Globe-Safford hy., and repaving and partial reconstructing bridge over Colorado River, at Yuma, to O. F. Fisher, 516 South 7th St., Phoenix, $51,493 and $13,221 respectively.

Calif., Fresno—H. S. Foster, city clk., grading, drainage structures, curbing, sidewalks, 25 electroliers, 6 in. concrete paving 33,000 sq.ft., 7 and 9 in. concrete paving 73,500 sq.ft. Traffic Circle at west end Belmont Ave. Subway, to Valley Paving & Constr. Co., P.O. Box 1349, $30,921.

Calif., Mountain View—B. L. Hays, city clk., grading, curbing, guttering, asphaltic concrete on rolled rock surfacing Moffett Blvd., to Union Paving Co., Call Bldg., San Francisco, $34,110.

Calif., San Jose—Santa Clara Co., oil macadam paving 240,000 sq.ft. New Ave., to A. J. Raisch, Burrell Bldg., $20,990.

Calif., Santa Barbara—City Council, grading, curbing, guttering, concrete paving 250,000 sq. ft. Mission, Chino Sts. et al., to J. L. McClain, 3452 West Slauson Ave., Los Angeles, $76,930.

Conn., Bridgeport—Dpt. P. Wks., J. J. McGuiness, repairing with bituminous macadam pavements on Stratford, Barnum, Fairfield, Main, State, John and Elm Sts. Owner builds. $25,000.

Conn., New Britain—City, Bd. P. Wks., road repairs, to W. H. Hall Co., 1014 West Main St., $25,000 or more; curbing, sidewalks, to A. Aiudi, New Britain, $6,090; crushed stone, to Sherman Sand & Stone Co., 24 Bradley St., $16,020; road oil, to Ford Bros. Co., New Haven.

Florida—State Road Dpt., Tallahassee, grading, drainage structures, clearing 6.197 mi. Project 960, Rd. 67, Glades Co., to Wilson & Walter, Orlando, $32,932. Noted Mar. 10 Daily.

Idaho—G. E. McKelvey, acting comr. P. Wks., Boise, grading, draining, graveling 5.492 mi. Ada Co., to Hoops, Twin Falls, $45,301; grading, draining, resurfacing, bridging 0.458 mi. Valley Co., to Morrison-Knudsen Co., Boise, $26,451. Noted Mar. 1 Daily.

Ill., Belleville—St. Clair Co., grading 4.67 mi. State Route 159, Sect. 130-A, to Burch Constr. Co., 119 Monona Ave., Madison, Wis., $49,540.

Ill., Chicago—Bd. Commissioners Cook Co., County Bldg., grading, drainage structures, shoulders, markers, concrete surfacing 16,517 ft. Arlington Heights Rd., to Chicago Heights Coal Co., Chicago Heights, $98,491—4,142 ft. Burnham Ave., to Allied Constr. Co., 8 South Michigan Ave., Chicago, $26,942—5,573 ft. Vincennes Ave., to Andrew Ward & Son, Thornton, $29,912—17,810 ft. Wolf Rd. and 11,960 ft. Greenwood-Pfingsten Rd., to Arcole Constr. Co., Niles Center, $121,107 and $79,461 respectively —15,835 ft. 79th St. and 3,215 ft. Torrence Ave., to Bates Constr. Co., 1 North La Salle St., $99,222 and $24,701 respectively—16,849 ft. Willow Rd., to Krenn & Dato Constr. Co., 228 North La Salle St., $98,094—7,597 ft. George Brennan Hy., to Pickus Eng. Co., 38 South Dearborn St., $53,452—4,861 ft. 47th St., to Standard Paving Co., 30 North La Salle St., $36,807—17,670 ft. Barrington Rd., to John Mackler & Co., 86 Illinois St., Chicago Heights, $164,530 — 3,150 ft. Oakton St., to Universal Paving Co., 136 Marion St., Oak Park, $27,103. Grand total $849,822.

Ill., Edwardsville—Madison Co., 9-6-9 in. concrete paving 1.01 mi. State Aid Route 1B, Sect. 48-15d, 18 ft., to Tri-City Paving & Constr. Co., Granite City, $15,259.

Ill., Harrisburg—Saline Co., grading 3.02 mi. State Route 143, Sect. 105-A, to R. B. Potashnick, Cape Girardeau, Mo. $37,698.

Ill., Louisville—Clay Co., grading, drainage structures 4.47 mi. State Aid Route 5, Sect. 2A-MFT, 31 ft., to H. Riley, Shelbyville, $25,606.

Ill., Winnetka—Village Bd., grading, curbing, guttering, drainage structures, concrete surfacing 8,250 sq.yd. Center St. (Railroad Ave.) south to village limits, to E. A. Meyer Constr. Co., Waukegan, $58,379.

Iowa—State Hy. Comn., Ames, to Central Eng. Co., 809 Putnam Bldg., Davenport, grading, drainage structures, paving 9.61 mi. road in Louisa Co. $114,200—to Koss Constr. Co., 2818 5th Ave., Des Moines, 9.428 mi. Lee Co. $117,-383; 3.331 mi. F-336 $42,169; 4.561 mi. F-7 $71,106; 3.874 mi. F-75-B $53,384, all Marion Co.—to Booth & Olson, Inc., Grain Exch. Bldg., Sioux City, 1.694 mi. Wayne Co. $28,236—to Moran Constr. Co., Omaha, Neb., grading, drainage structures 11.699 mi. Madison Co. $65,389 —to C. Nelson, Fremont, Neb., 8.162 mi. Lucas Co. $38,573—to H. Snater, Ackley, 5.151 mi. Wright Co. $23,018. Grand total $553,458. Noted Mar. 10.

Kansas—State Hy. Comn., Court House, Ft. Dodge **(P. means Project and F.A.P. Federal Aid Project)**, to Geiger & Rutherford, Leavenworth, grading, drainage structures, bridges 4.718 mi. P. 154-1, F.A.P. 236-D $111,852; 0.727 mi. P. 154-1, F.A.P. 236-B $20,373, both Ford Co.—to List & Clark Constr. Co., Kansas City, Mo., grading, drainage structures 0.651 mi. P. 21-9, F.A.P. 440-E $788; 0.625 mi. P. 21-9, F.A.P. 440-D $6,764, both Hodgemen Co.; 4.346 mi. P. 21-10, F.A.P. 440-A $13,975; 1.079 mi. P. 21-10, F.A.P. 440-F $3,524, both Ness Co. Grand total $157,276.

Kansas—State Hy. Comn., Court House, La Crosse **(P. means Project and F.A.P. Federal Aid Project)**, to Yancey Constr. Co., Abilene, grading, drainage structures 7.981 mi. P. 1-11, F.A.P. 443-B, Rush Co. $36,276; 0.284 mi. P. 1-9, F.A.P. 443-C $9,424, 11.179 mi. P1-10, F.A.P. 443-A, $25,826; 0.152 mi. P. 50N-10, F.A.P. 295-A $350, all Pawnee Co. Grand total $71,876.

Kansas—State Hy Comn., Court House, McPherson **(P. means Project, K.P. Kansas Project and F.A.P. Federal Aid Project)**, to San-Ore Constr. Co., McPherson, bituminous material surfacing 7.014 mi. P. 81-12, F.A.P. 287-A $13,-298; 12 mi. P. 4-9, K.P. 1308 $28,229; 1.25 mi. P. 81-12, K.P. 1309 $2,327; 17.4 mi. P. 17-4, K.P. 1310 $34,316, all McPherson Co.— to E. Graff, Norton, 2.3 mi. P. 50S-25, K.P. 7546 $3,265; 2.13 mi. P. 50S-26, K.P. 7557 $1,150; 1.94 mi. P. 15-12, K.P. 7554 $5,781; 2.12 mi. P. 50S-27, K.P. 7447 $1,908, all Marion Co.; 2.19 mi. Chase Co. $3,066—to Yant Constr. Co., Omaha Natl. Bank Bldg., Omaha, Neb., 1.85 mi. P. 36-22, K.P. 7551 $4,218; 1.73 mi. P. 26-23, K.P. 7550 $3,598; 0.95 mi. P. 36-24, K.P. 7549 $3,914; 1.63 mi. P. 15-22, K.P. 7552 $2,347, all Washington Co. — to Collins Constr. Co., Leavenworth, 4.84 mi. Dickinson Co. $3,969—to McMillen & Furman, Eldorado, 1.34 mi. Geary Co. $5,092; 2.11 mi. Dickinson Co. $5,570; 2.15 mi. Morris Co. $903 — to B. Metzger, Osawkie, 2.1 mi. Dickinson Co. $5,964 —to Robertson Constr. Co., 201 Bitting Bldg., Wichita, 1.29 mi. Ellsworth Co. $9,443—to D. H. Hardman, Alton, sand gravel or limestone surfacing 0.68 mi. Lincoln Co. $8,364. Grand total $146,722.

Kansas—State Hy. Comn., Court House, Ottawa **(P. means Project and K.P. Kansas Project and F.A.P. Federal Aid Project)**, to S. W. Poor & Son, Topeka, grading, drainage structures 6.08 mi. P. 39-10, F.A.P. 271-D $35,393; Bridge 1 $5,082; Bridge 2 $1,507; Bridge 3 $2,903; 0.503 mi. P. 3-3, F.A.P. 271-F $3,532; 1.975 mi. P. 38-9, F.A.P. 271-E $14,432, all Bourbon Co.—to Cook & Stucker, Ottawa, grading, drainage structures, culverts, concrete surfacing 7.113 mi. Franklin Co. $173,734. Grand total $236,583.

Kan., Kansas City—W. Beggs, clk. Wyandotte Co., grading, curbing, guttering, concrete surfacing 1 mi. road from intersection Espenlaub (18th St.) Rd. at Shearer Rd. to Southwest Blvd. of State Hy. 10, 18 ft., to H. C. Bostford, 914 North 6th St., $20,581. Noted Feb. 25.

Maine—State Hy. Comn. ,Augusta, **(F.A.P. means Federal Aid Project)**, concrete paving 3.67 mi. F.A.P. 110-H-"I" Newport-Plymouth, and bituminous macadam paving 7.21 mi. F.A.P. 80-E-"S" Poland, to Wyman & Simpson, Inc., Augusta, $67,436 and $158,648 respectively. Noted Mar. 10.

Maryland—State Roads Comn., Baltimore, G. C. Uhl, chn., concrete paving 4.65 mi. Contr. AA-118-72, Anne Arundel Co., to Christhilf & Ensey Co., 1625 Ridgely St., Baltimore, $83,136. Noted Mar 3.

Maryland—State Roads Comn., Baltimore, G. C. Uhl, chn., concrete paving 1.46 mi. Contr. Ce-128-24, Cecil Co., to Phillips Bros., Salisbury, $19,410. Noted Feb. 18.

Michigan—A. L. Burridge, div. engr., Cadillac, grading, shaping, drainage structures, gravel surfacing 3.01 mi. FO83-13C-2, Wexford Co., for State Hy. Comn., Lansing, to Maurer Bros., Cadillac, $29,734. Noted Feb. 18.

Michigan—W. J. Kingscott, div. engr., 213 Watson Bldg., Grand Rapids, grading, drainage structures, 1.022 mi. FO61-11C-7 Muskegon Co., for State Hy. Comn., Lansing, to Gould & Cross, Grand Rapids, $25,055. Noted Feb. 18.

Michigan—H. G. Oakes, div. engr., Plymouth, grading, drainage structures 5.242 mi. FO8-32 C-1, Washtenaw Co., for State Hy. Comn., Lansing, to Louis Garavaglia Co., 2223 Scott St., Detroit, $61,671. Noted Feb. 11.

Minn., Hibbing—Concrete paving 9 blocks, to E. W. Coons Co., Hibbing, $41,297.

Mo., Clayton—St. Louis Co., concrete paving 21,241 ft. Lindbergh Blvd. and 4,825 ft. McKnight Rd., to J. Kesl & Sons, Edwardsville, Ill., $129,317 and $42,350 respectively—22,466 ft. Lindbergh Blvd., to Sandy Hites Co., City Bank Bldg., Kansas City, $150,288—1,150 ft. Wellston Ave., to Skrainka Constr. Co., Security Bldg., St. Louis, $8,538—1,408 ft. Wellsmar Ave., to C. M. Berry Constr. Co., 2732 Sutton Ave., Maplewood, $8,753—4,080 ft. Brown Rd., to Israel Bros. Constr. Co., 6635 Delmar Blvd., St. Louis, $30,094—two 10 ft. concrete slabs on either side street car tracks, 4,282 ft. Shady Ave., to Webb-Boone Paving Co., 1503 Fyler Ave., St. Louis, $38,634—grading 3,140 ft. Lasky Rd., to J. C. Kaiser, 2418 North Wise Ave., Overland, $5,835—concrete sidewalks Janet Ave. and rein.-con. bridge over Bonhomme Creek, Reiger Rd. to J. Dillon, 2358A Tennessee Ave., St. Louis, $677 and $5,773 respectively—rein.-con. bridge over Sutter Creek, on Old Halls' Ferry Rd., to Industrial Constr. Co., Title Guaranty Bldg., St. Louis, $11,863. Grand total $432,122. Noted Feb. 11.

Nevada—State Hy. Dpt., Carson City, reconstructing state highway between Las Vegas and point 10 mi. southeast and bridge over Las Vegas Wash., Clark Co., to Dodge Bros., Inc., Fallon, $14,298; reconstructing road in Elko Co., to Mahoney-Cline Co., Las Vegas, $120,009. Noted Feb. 25.

N. Y., Long Beach — Nassau Co., Mineola, rein.-con. and warrenite bitulithic paving Park Ave., to E. J. Hughes, Mineola, $34,095. Est. $45,729. Noted Mar. 10.

Ohio — O. W. Merrell, dir. hys., Columbus, grading, draining, concrete paving 3.95 mi. hy. Auglaize Co., to R. R. Heffner, Celina, $64,605— extending and constructing drainage structures, widening present brick paving 1.345 mi. Carroll Co., to J. L. Fondriest Co., 1128 18th St. N. W., Canton, $9,550—2.023 mi. Knox Co. and brick paving, incl. furnishing, delivering brick 3.516 mi. Perry Co., to Lewis & Copeland Constr. Co., Lima, $41,066 and $81,507 respectively—1.325 mi. Hocking Co., to E. N. Turner, Logan, $43,-527—4.084 mi. Shelby Co., to John Frantz & Son, Sidney, $126,184—1.703 mi. Summit Co., to Garaux Bros. Co., 415 9th St. S. W., Canton, $56,602—concrete paving 3.288 mi. Fulton Co., to W. L. Johnson Constr. Co., Hicksville, $56,-665—2.714 mi. Trumbull Co., to McCourt Constr. Co., 365 South Main St., Akron, $43,259 —0.46 mi. Union Co., to Dodge-Hussey, Inc., 1174 West 5th Ave., Columbus, $10,321—1.275 mi. Delaware Co., to A. J. Freemas Constr. Co., 180 North High St., Columbus, $23,238. Grand total $556,524. O. W. Merrell, dir. hys., Columbus, cancelled bids received Mar. 4, concrete paving 1.929 mi. Sect. "J-2" Xenia-Fairfield Rd., Greene Co., $71,642; 1.4 mi. Sect. "J" Cleveland-Sandusky Rd., Lorain Co., $59,343. Noted Feb. 25.

Oregon—State Hy. Comn., Salem, grading 3.85 mi. Umqua Hy., and 3.8 mi. road, both 20 ft. wide, Douglas Co., to E. McNutt, Eugene, $50,549 and $42,457 respectively; 14.24 mi. McKinzie Hy., 20 ft., Lane Co., to Hillstrom Bros., Portland, $73,170. Grand total $166,176.

Oregon—State Hy. Comn., Portland, grading, surfacing 2.5 mi. Vesper Sect. Nehalem Hy., to Gilbert & Goodwin, Portland, $33,699—graveling Valley Falls-Okerman Sect. Lakeview-Burns Hy., to K. Lien, Portland, $16,850—grading Paradise Creek Elkton Sect. Umpqua Hy., to E. L. McNutt, Eugene, $92,007. Grand total $142,-556. Noted Mar. 10.

Tennessee—State Dpt. Hys. & P. Wks., Nashville **(S.A.P. means State Aid Project and F.A.P. Federal Aid Project)**, grading, drainage structures, S.A.P. 111-B, Sullivan Co., to Alley Constr. Co., Bristol, Va., $14,013—F.A.P. 216-B, Cocke Co., to Chandler Bros., Inc., Virgilina, Va., $10,647—S.A.P. 547-A, Maury Co., to W. A. Patton, South Pittsburgh, $25,820—bridge over Mulberry Creek, S.A.P. 561-A, Moore Co., to Bell & Bell, 101 Broad St., Nashville, $4,674. Grand total $55,154. Rejected bids Feb. 12, overhead bridges, S.A.P. 378-H, Henry Co.

Tex., Dallas—City, c/o E. Goforth, secy., 2 in. asphalt, coarse aggregate on 6 in. concrete

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Streets and Roads (Continued)

paving Ross Ave., from Leonard to Peak Sts., to H. L. Cannady Co., Santa Fe Bldg., $89,784. Est. $90,000. Noted Feb. 18.

Tex., Dallas—City, c/o E. Goforth, secy., 2 in. asphalt, concrete, coarse aggregate paving Akard St. from Pacific to Cedar Springs Aves. and Ross St. from Lamar to Leonard Sts., to H. L. Cannady, Santa Fe Bldg., $41,474 and $54,740 respectively. Noted Feb. 4.

Washington—S. J. Humes, dir. State Hys., Olympia, paving 11.7 mi. Inland Empire Hy., between Hillside and Yakima, to Albertson-Cornell Bros., 1113½ A St., Tacoma, $302,835—crushed stone resurfacing 15.5 mi. National Park Hy., to R. O. Dail, 2717 Simpson Ave., Aberdeen, $6,698—grading, draining, surfacing 4.5 mi. Chelan and Okanogan Hy., Douglas Co., to E. P. Doolittle, Seattle, $29,788—rein.-con. bridge over Okanogan River, Okanogan Co., to S. G. Morin, Spokane, $33,452. Grand total $372,773. Noted Feb. 18.

Wash., Ellensburg—Comrs. Kittitas Co., grading, surfacing 4.47 mi. Lateral Hy. 6, to S. J. Haas, Grandview, $25,490.

Wash., Tacoma—Pierce Co., Court House, concrete paving 1.65 mi. Puyallup-Lakeview Rd., Wilt-Hegele Sect., 18 ft., to Paine & Galluci, 1521 Paine St., $31,869. Est. $35,475. Noted Feb. 25.

Wash., Tacoma—Pierce Co., concrete surfacing 1.53 mi. Point Fosdick-Gig Harbor Rd., 18 ft., to S. A. Moceri, Inc., Thompson Bldg., Seattle, $32,500. Est. $56,769. Noted Feb. 18.

Wyoming — State Hy. Comn., Capitol Bldg., Cheyenne, improving 15.946 mi. Greybull-Deaver and Garland-Deaver Rds., Big Horn and Park Counties, to Wilson & Welch, Wheatland, $23,101—grading 12.166 mi. Cheyenne-Wheatland Rd., Platte Co., to R. Spatz, Cheyenne, $32,288—surfacing same road, to Wyoming Constr. Co., Laramie, $11,876 — grading, oil treating 13.569 mi. Rock Springs-Green River Rd., and 1.51 mi. Green River-Bryan Rd., Sweetwater Co., to T. J. Tobin Constr. Co., Casper, $39,438. Grand total $106,703.

Ont., Hamilton—Wentworth Co., Court House, hy. maintenance incl. ditching, drainage, grading, culverts, graveling, repairing suburban roads, $20,000; county roads $33,000; provincial hys., $10,000, day labor. H. A. Lumsden, Court House, engr.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

Calif., Salinas — Reclamation Dist. 1665, Monterey Co., completed plans 79,000 cu.yd. excav., 23,000 cu.yd. lateral canal reconstruction and cleaning out, three 30 in. diam. galvanized iron corrugated pipe culverts with automatic drainage gates, one 72 in. diam. galvanized iron culvert. H. D. Peters, Salinas, engr.

N. Y., Babylon—Long Island State Park Comn., Administration Headquarters, Belmont Lake State Park, rejected bids Feb. 16, hydraulic excavation on Part 7 Ocean Blvd., Nassau and Suffolk Counties. Noted Feb. 2.

O., Cleveland—City, dredging Cuyahoga River. $82,000. R. Hoffman, city engr.

BIDS ASKED

Mass., Marshfield—Mar. 29, by Dpt. P. Wks., F. E. Lyman, comr., filling back of concrete seawall at Fieldstone, involving 12,000 cu.yd.; also constructing rubble concrete steps with wrought iron railings, extending over existing concrete wall at Fieldstone.

Pa., Espeyville—Mar. 28, by L. E. Staley, chn. Pennsylvania Water & Power Resource Bd., Claster Bldg., Harrisburg, constructing 200 lin.ft. hy. embankment, 30 ft. high, approximately 26,000 cu.yd., in North Shenango Twp., near here.

CONTRACTS AWARDED

Conn., New Haven—United Illuminating Co., 128 Temple St., bulkhead at Grand Ave. power plant, to C. W. Blakeslee & Sons, Inc., 76 Waverly St. Est. $25,000.

Ia., Waterloo—J. E. Dempster, secy. River Front Development Comn., 622 Commercial St., furnishing material and constructing river walls between Mullan and Park Aves. and Great Western R.R. Bridge, incl. 2,225 cu.yd. rein.-con., 85,502 lb. reinforcing steel, 8,322 lin.ft. 14 and 16 in. piling, 50,000 ft. sheeting, to H. A. Maine Co., Waterloo, $43,800. Noted Feb. 4.

Bond Elections

Coming Bond Elections

Waterworks — La Habra, Calif., Apr. 11, J. Sauks, City Engr. $100,000.

Developing Water Supply—San Clemente, Calif., Apr. 11. A. W. Ayer, City Hall, engr. $100,000.

Water Distribution System — Walnut Creek, Calif., Saranop Water Dist. $45,000.

Water and Sewer System—Campbellsport, Wis., Apr. 5. $60,000.

Sewage Disposal Plant—Ann Arbor, Mich., Apr. 4. $450,000.

Civic Center—San Leandro, Calif., Apr. 11. $80,000.

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Bonds Voted

Waterworks—Blacksburg, Va., $35,000.

Sanitary Sewers—Washington, Mo., $30,000.

Highway Improvement and Bridges — Gregg County, Tex., $1,500,000.

Bonds Defeated

Sewers, Viaduct, etc.—Joplin, Mo. $100,000.

FEDERAL GOVERNMENT

PROPOSED WORK

Calif., Alameda—SHOPS—Con. Q. M., 1 story, 330 x 480 ft. shops, Benton Air Field.

Calif., San Diego—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by W. Templeton Johnson, San Diego Trust & Savings Bank Bldg., U. S. Post Office, East 8th and 9th Sts. $530,000. Noted Mar. 17.

Calif., Sunnyvale—INDUSTRIAL BUILDINGS — Spec. 6791 — Yards & Docks, Navy Dpt., Wash., D. C., 5 rein.-con. industrial buildings, at Naval Air Station.

D. C., Wash.—LABORATORY—Spec. 6683—Yards & Docks, Navy Dpt., astrographic laboratory building.

Ill., Waukegan—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., preparing plans and takes bids about Apr. 15, U. S. Post Office, Julian and Genesee Sts. $300,000. J. A. Wetmore, acting superv. archt.

Ind., Indianapolis—QUARTERS—Con. Q. M., non-commissioned officers' quarters at Fort Benjamin Harrison, near here. $120,000.

Ia., Spencer—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., soon takes bids concrete, brick, stone post office. $105,000. Site bought. Noted Apr. 16.

La., Shreveport — QUARTERS, etc.—Con. Q.M., Barksdale Field, 30 non-commissioned officers quarters $252,000; 57 officers quarters $609,000; barracks for 575 men, $474,000; completing hospital, $225,000; completing garage, $30,000, completing warehouse, $15,000. Grand total $1,605,000.

Mich., Detroit — DREDGING — U. S. Eng., 1,767,000 cu.yd. channel at foot Lake Huron near Port Huron.

Minn., Minneapolis — FOUNDATION — Treas. Dpt. at office Sup. Archt., Wash., D. C., rescinded contract excavation, foundations, demolition for U. S. Post Office. Work will be included with specifications for superstructure at later date. Noted Feb. 11 under "Contracts Awarded."

Minn., St. Cloud — HOSPITAL — Vet. Bu., Arlington Bldg., Wash., D. C., 3 story, basement, brick, rein.-con. addition, at Veterans' Hospital. $200,000.

Minn., St. Paul—DREDGE HULL—U. S. Eng., 1 wooden dredge hull delivered on Mississippi River between McGregor, Ia., and here.

Nev., Elko—FEDERAL—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Federal Building. $150,000. Money appropriated by Congress. J. A. Wetmore, acting superv. archt.

Nev., Las Vegas—FEDERAL—Treas. Dept. at office Sup. Archt., Wash., D. C., soon takes bids U. S. Post Office. $262,000. Former contractor defaulted on contract. Noted Aug. 20 under "Contracts Awarded."

N. J., Jersey City—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., sketches completed, and bids in May, general contract remodeling, extending 3 story, basement, brick, steel, Montgomery and York Sts. $500,000. W. Neumann & Sons, 26 Journal Sq., archts. Noted Oct. 8.

N. Y., Seneca Falls—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., soon takes bids U. S. Post Office, 34-38 State St. $115,000. Noted Jan. 28.

S. C., Parris Island—ROADS—Spec. 6799—Yards & Docks, Navy Dpt., Wash., D. C., widening concrete roads at Marine Barracks.

Tex., Beaumont—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by F. C. Stone, 1200 Goodhue Bldg., F. W. and D. E. Steinman, 1001 San Jacinto Life Bldg., 3 story, basement, 174 x 227 ft. rein.-con., stone, steel post office. $700,000. Noted Jan. 28.

Va., Hampton Roads—GRADING—Spec. 6811—Yards & Docks, Navy Dpt., Wash., D. C., grading 56 acres at Naval Operating Base.

Wash., Seattle—NURSES' HOME—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by Bebb & Gould, Hoge Bldg. and J. Graham, Dexter Horton Bldg., brick, terra cotta, Beacon Hill. $150,000.

BIDS ASKED

Ariz., Douglas — INSPECTION STATION — Apr. 14, by Treas. Dpt. at office Sup. Archt., inspection station. Noted Feb. 11.

Ariz., Phoenix—CEMENT—Apr. 5, by C. H. Skinner, supt. U. S. Indian School, 800 sacks portland cement in non-returnable paper bags.

Calif., San Diego—STORAGE TANK—Spec. 6689—Mar. 29, by Pub. Wks. Officer, 11th Naval Dist., 100,000 gal. aviation gasoline storage tank.

Colo., Palisade — BUILDING — Bureau Reclamation, Denver, bids about May 14, building for hydro-electric plant. $128,000. Entire project, incl. installation machinery. $215,000.

D. C., Wash. — ELEVATOR — Apr. 18, by Treas. Dpt. at office Sup. Archt., Wash., D. C., installing elevator in extension U. S. Post O Noted Feb. 25.

Fla., Fort Myers—POST OFFICE—Apr. by Treas. Dpt. at office Sup. Archt., Wa D. C., U. S. Post Office (except elevator lighting fixtures). Total cost $210,000.

Fla., Pensacola—REFRIGERATING PLAN Spec. 6755—Mar. 23, by Yards & Docks, N Dpt., Wash., D. C., refrigerating and ice ing plant, Naval Hospital.

Ind., Winchester—POST OFFICE—Apr. 15 Treas. Dpt. at office Sup. Archt., Wash., D. U. S. Post Office; adv. E. N.-R. Mar. 24. No Feb. 25.

Kan., Pittsburgh—ENTRANCE DOORS—A 5, by Treas. Dpt. at office Sup. Archt., Wa D. C., entrance doors U. S. Post Office.

Ky., Louisville—PASSENGER ELEVATOR Apr. 12, by Treas. Dpt. at office Sup. Arch Wash., D. C., passenger elevator U. S. Mari Hospital.

La., Baton Rouge—ELEVATOR PLANT—A 12, by Treas. Dpt., at office Sup. Archt., Wash D. C., elevator plant in U. S. Post Office, Co House, etc.

La., Monroe—SHORE PIPE—Mar. 30, U. S. Eng., Box 667, Vicksburg, Miss., 14 long, 16 in. inside diam. steel shore pipe, f.o Monroe.

Md., Perry Point—HOSPITAL—Apr. 19, Vet. Bu., Arlington Bldg., Wash., D. C., nurses and attendants' quarters at U. S. Veterans A ministration Hospital; adv. E. N.-R. Mar. 24.

Mass., Rutland Heights—ELEVATORS—Ap 5, by Vet. Bu., Arlington Bldg., Wash., D. C electric elevators for Administration and Clin cal Building 1-A, U. S. Veterans' Hospital.

Mich., Detroit—WAREHOUSE—Apr. 15, U. S. Eng., new warehouse, incl. paint and o storage building, dock repairs, crane and othe work in connection therewith; adv. E. N.-R Mar. 24. Noted Jan. 14.

Minn., Mankato—POST OFFICE, etc.—Apr 20, by Treas. Dpt. at office Sup. Archt., Wash D. C., remodeling and extending U. S. Post Of fice and Court House; adv. E. N.-R. Mar. 24 Noted Oct. 22.

Miss., Jackson—ROTATING BEACONS—Mar 28, by U. S. Aeronautic Div. Dpt. Commerce, 30 electric rotating beacons for Dallas-Meridian section of airway passing through here.

New Jersey—DREDGING—Apr. 19, by U. S Eng., 39 Whitehall St., New York, 26,145 cu.yd overlying material and 4,509 cu.yd. ledge rock in Passaic River; adv. E. N.-R. Mar. 24.

N. J., Newark—POST OFFICE, etc.—Mar. 30 (extended date), by Treas. Dpt. at office Sup Archt., Wash., D. C., constructing (except elevators and dumbwaiters), U. S. Post Offic Court House.

N. J., Union City—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about June 1, general contract 2 story, basement, brick, steel, 32nd St. and Palisade Ave. $375,000. J. G. Helmers, 147 Summit Ave., archt. Mahnken & Schultz, 26 Journal Sq., Jersey City, assoc. archts. Noted Feb. 4.

N. Y., Block Island — LIGHT-KEEPERS DWELLING—Apr. 18, by Superintendent Lighthouses, St. George, light-keepers dwelling.

N. Y., Nyack—POST OFFICE—Apr. 19, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office; adv. E. N.-R. Mar. 24. Noted Feb. 4.

N. Y., St. George—BELL BUOYS—Mar. 29, by Superintendent Lighthouses, nine 9 x 32 ft. lighted bell buoys.

N. C., New Bern—SERVICE BUILDING, etc. —Apr. 8, by Con. Q. M., Fort McPherson, Ga., service building and remodeling lodge at U. S. National Cemetery.

N. C., Wilmington—REPAIRING DREDGE—Mar. 31, by U. S. Eng., repairing seagoing dredge "Comstock."

O., Cincinnati—POST OFFICE—Apr. 4, by Treas. Dpt. at office Sup. Archt., excavation, pile founds. for U. S. Post Office. Noted Feb. 18.

Pa., Lewisburg—POST OFFICE, etc.—Apr. 13, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, Court House (except elevator).

Pa., Rostraver—POWER PLANT—Apr. 6, by U. S. Eng., Keenan Bldg., Pittsburgh, 2 transmissions, complete; 2 auto driven controls; 2 accumulator control valves; 1 coal hoist; 1 automatic bypass for power plant standby at Dam 4.

Tenn., Memphis — HOSPITAL — Apr. 11, by Treas. Dpt. at office Sup. Archt., Wash., D. C., surgical unit and laundry building, approach work, underground service lines, laundry equipment, at U. S. Marine Hospital. Noted Mar. 17.

Va., Langley Field—GYMNASIUM—Apr. 7, by Con. Q. M., gymnasium and theatre. $85,000.

Va., Norfolk—POST OFFICE—Apr. 11, by Treas. Dpt. at office Sup. Archt., Wash., D. C., foundation contracts for U. S. Post Office, Monticello and Brambleton Aves., Duke and Granby Sts. Total est. $2,000,000; adv. E. N.-R. Mar. 24. Noted Dec. 24.

Tenn., Knoxville—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., opens bids about Apr. 21, 3 story, 147 x 251 ft. U. S. Post Office, Main and Cumberland Sts. $1,000,000. Baumann & Baumann, 815 Market St., archts. Noted Mar. 3.

Tenn., Memphis—EARTHWORK—Apr. 21, by U. S. Eng., P. O. 97, 18,761,000 cu.yd. earthwork on St. John's Bayou Levee and in Lower

Federal Government Work (Continued)

St. Francis White River and Upper Yazoo Levee Dists.; adv. E. N.-R. Mar. 24.

Tenn., Nashville—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about June 1, general contract U. S. Post Office, Broad St. between 9th Ave. and Union Station. $1,565,000. Marr & Holman, 701-2 Stahlman Bldg., archts. J. A. Wetmore, Wash., D. C., acting superv. archt. Noted Nov. 19.

W. Va., Huntington—PUMP—Apr. 5 (extended date), by U. S. Eng., 2 vertical triplex plunger pumps, each with 200 g.p.m. capacity against pressure 430 lb.; 1 hydro-pneumatic, 2 compartment accumulator, 24 in. diam.; 700 gal. steel pump priming tank.

W. Va., Huntington—VALVES, etc.—Mar. 29, by U. S. Eng., valves and pipe fittings.

Wis., Monroe—LIGHTING FIXTURES—Apr. 11, by Treas. Dpt. at office Sup. Archt., Wash., D. C., installing lighting fixtures in U. S. Post Office.

T. H., Honolulu—STORAGE MAGAZINES—Apr. 1, by U. S. Eng., ammunition storage magazines and water supply at Aliamanu Crater, Moanalua Island, Oahu

CONTRACTS AWARDED

Ala., Fort McClellan—STABLE—Con. Q. M., 2 story, 32 x 32 ft., rein.-con., brick, to Smallman McQueen Constr. Co., 1109 Ave. E South, Birmingham, $6,626. Noted Jan. 14.

Ala., Montgomery—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, Court House and approaches, to A. Blair, Montgomery, $736,650 (500 days). Noted Mar. 3.

Ark., Texarkana—ELEVATOR—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator in U. S. Post Office, to Westinghouse Electric Co., 20 North Wacker Dr., Chicago, Ill., $25,923. Noted Dec. 31.

Calif., Alameda—DEEP WELL PUMP—Con. Q. M., furnishing, installing deep well pump, Benton Air Field, to Wilson Mchy. Co., 191 18th St., Oakland, $1,902.

Calif., Los Angeles—LIGHTING FACILITIES—Yards & Docks, Navy Dpt., Wash., D. C., night flying lighting facilities, at Naval Operating Base, to Bennett & Taylor, 736 East 73rd St., $20,746.

Calif., Sunnyvale—WELLS, etc.—Spec. 6789—Yards & Docks, Navy Dpt., Wash., D. C., 2 gravel wall wells, pumps and pump houses, to Western Pump Co., San Jose, $20,796. Noted Feb. 18.

Fla., Pensacola — SEWERS — Spec. 6506 — Yards & Docks, Navy Dpt., Wash., D. C., sewer and drain piping, at Naval Air Station, to Jacobson & Mortenson, Tuscaloosa, Ala., $25,593. Noted Mar. 3.

Illinois — EARTHWORK — U. S. Eng., 428 Customhouse, St. Louis, Mo., placing earthwork in rebuilding and enlarging levee Hartwell Drainage and Levee Dist., of Greene Co. on Illinois River, 666,000 cu.yd., to Wills Corneli Co., 707 North Grand Blvd., St. Louis, Mo., at $0.0749 per cu.yd.; 435,000 cu.yd., to Calkins Dredging Co., Chicago, Ill., at $0.15 per cu.yd.; 327,000 cu.yd., to Trinity Farms Constr. Co., Santa Fe Bldg., Dallas, Tex., at $0.1282 per cu.yd. Noted Feb. 4.

Ind., Indianapolis — POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., general contract remodeling post office, to Smythe & Co., 1416 F St. N. W., Wash., D. C. Noted Feb. 18.

Ia., Davenport—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office and Court House, to B. W. Constr. Co., 720 North Wabash Ave., Chicago, Ill., $366,840 (500 days). Noted Feb. 4.

Kan., Ottawa—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., extending, remodeling U. S. Post Office, to R. S. Huff, Pittsburg, $15,800. Noted Feb. 11.

Ky., Ashland—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., federal building additions, to G. Thomson & Son Co., 30 North LaSalle St., Chicago, Ill., $82,175. Noted Mar. 3.

Mich., Detroit—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, Court House and Custom House, to Great Lakes Constr. Co., 333 North Michigan Ave., Chicago, Ill., $3,147,215 (400 days). Noted Jan. 7.

Minn., Minneapolis—STORAGE BUILDING—Vet. Bu., Arlington Bldg., Wash., D. C., Storage Building 18, to Redlinger & Hansen Co., 827 2nd Ave. S., $40,570; freight elevator, to Otis Elevator Co., 810 18th St. N. W., Wash., D. C., $2,338. Noted Feb. 4.

Mont., Anaconda—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to J. L. Soderberg Constr. Co., 216 Kennedy Bldg., Omaha, Neb., $109,000. Noted Jan. 7.

N. Y., St. George—STEEL TOWERS, etc.—Superintendent Lighthouses, 16 steel towers, to McClintic-Marshall Co., Oliver Bldg., Pittsburgh, Pa., $1,950; 4 buoys, to J. S. Schofeld's Sons, Macon, Ga., $341 each; 9 buoys, unlighted, to Marrion Machine Fdry. & Supply Co., Scottdale, Pa., $1,100; 2 buoys, to Baldwin Locomotive Wks., Eddystone St., Phila., Pa., $112 each; small welded buoys, to Biggs Boiler Co., 1007 Bank St., Akron, O., $8,861; cast iron sinkers, to Campbell Fdry. Co., Fort Worthington Ave., Harrison, N. J., at $0.96 to $1.09 per cwt.; cast iron sinkers and ballast balls, to P. Laytham & Sons Co., 899 Market St., Paterson, N. J., at $0.90 to $1.50 per cwt.; two ballast balls, to Amer. Brake Shoe & Fdry. Co., Ramapo Valley Rd., Mahwah, N. J., at $1.175 to $1.37 per cwt. Noted Feb. 4.

Pa., Pittsburgh — BUILDINGS — U. S. Eng., Pittsburgh, 3 buildings at Lock 4, Monongahela River, to H. Miller & Sons Co., 2565 5th Ave., $17,900. Noted Feb. 2.

Tex., Legion—GARAGE—Vet. Bu., Arlington Bldg., Wash., D. C., garage, to C. S. Lambie & Co., Amarillo, $15,459. Noted Jan. 28.

Va., Hampton Roads — BUILDINGS — Spec. 6780—Yards & Rocks, Navy Dpt., moving and relocating 9 quarters and 5 garages at Naval Operating Base, to J. A. Killian, 700 South Eden St., Baltimore, Md., $47,900. Noted Dec. 24.

Va., Norfolk — AIR COMPRESSOR — Spec. 6769—Yards & Docks, Navy Dpt., Wash., D. C., air compressor, to Ingersoll Rand Co., 11 Bway., New York. $25,400.

Va., Yorktown—MAGAZINE—Spec. 6548—Yards & Docks, Navy Dpt., Wash., D. C., concrete buildings and structures, conveyor housings, to McHary Co., 1328 Bway., New York, $46,060. Noted Feb. 4.

W. Va., Huntington—AIR COMPRESSOR—U. S. Eng., steam driven compressor and air receivers for Lock 22, Ohio River, to Pennsylvania Pump & Compressor Co., Easton, Pa., $1,270. Noted Feb. 22.

W. Va., Huntington—HOISTING ENGINE—U. S. Eng., 1 steam hoisting engine, to J. S. Mundy Hoisting Engine Co., 722 Freylinghuysen Ave., Newark, N. J., $555. Noted Dec. 24.

Wis., Algoma — PIERS — U. S. Eng., Milwaukee, 1,948 lin.ft. superstructure on crib and pile piers, to Strucken & Sack, Schubert Bldg., St. Paul, Minn., $69,405. Noted Nov. 14.

Cuba, Guantanamo—TELEPHONE SYSTEM—Spec. 6709—Yards & Docks, Navy Dpt., Wash., D. C., automatic telephone system, to Automatic Electric Co., 1033 West Van Buren St., Chicago, Ill., $12,691. Noted Feb. 18.

FEDERAL POWER COMMISSION

Applications for License and Permits
Licenses

1198 — Jackson Hole Light & Power Co., Jackson, Wyo., wants license partly constructed power project on Flat Creek, tributary of Snake River, affecting lands in Teton Natl. Forest, Teton Co.

1199—Washington Electric Co., 860 Stuart Bldg., Seattle, Wash., wants preliminary permit power project on May Creek, affecting lands within Snoqualmie Natl. Forest, Snohomish Co.

RAILWAYS

CONTRACTS AWARDED

Pennsylvania—Reading R.R. Co., Reading Terminal Bldg., Phila., C. Dillenbeck, chn., 3,000 tons steel for electrification of catenary structures to be erected in connection with electrification of Norristown and Chestnut Hill branches, to McClintic-Marshall Constr. Co., Oliver Bldg., Pittsburgh. Noted Dec. 10.

SUBWAYS AND TUNNELS

PROPOSED WORK

New York—Transit Comn., 278 Madison Ave., New York, ordered Interborough Rapid Transit Co., 165 Bway., New York, to install express service on subway to Flushing, involving purchase 50 new cars, new power facilities, signal system, and tracks changes. Total cost $2,233,000. Interborough Rapid Transit Co. to pay $2,058,000, City $171,500 and New York Rapid Transit (B.M.T.), 385 Flatbush Ave., Brooklyn, $3,500.

Alta., Calgary—City Council subway, 4th Ave. $306,000.

CONTRACTS AWARDED

Pa., Polk—See "Sewers."

GRADE CROSSINGS

PROPOSED WORK

Mass., Boston — Commonwealth of Massachusetts, Metropolitan Dist. Comn. 20 Somerset St., underpass and overpass, Commonwealth Ave. and Essex St.

N. Y., Elma—Pennslvania R.R. Co., T. J. Skillman, ch. engr., Broad St. Sta., Phila., Pa., plans eliminating Jamison Rd. Crossing. To exceed $25,000. Pub. Serv. Comn. ordered elimination but will hear new testimony of railroad. Noted Dec. 24.

N. Y., Petersburg—Rutland R.R. Co., L. G. Morphy, ch. engr., Rutland, Vt., bids early in spring eliminating grade crossing on North-Petersburg-Vermont State Line Hy.

N. Y., Weedsport—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, eliminating Goff St., Seneca St., Horton St., South St. and Willow St. Grade Crossings. $483,000.

Texas—State Hy. Comn., W. R. Ely, chn., Austin, preparing plans 2 steel, concrete underpasses under Texas & Pacific R.R., on Hy. 10, 1 near Denton and other near Aubrey, Denton Co. $32,000 funds appropriated. C. Rice, Records Bldg., Dallas, div. engr.

CONTRACTS AWARDED

Wisconsin—State Hy. Comn., Madison, Roberts Overhead Crossing, to L. G. Arnold, Eau Claire, $18,116.

Wisconsin—State Hy. and Unemployment Comns., Madison, constructing Bay Shore Subway, Milwaukee Co. and Bell Overhead Walworth Co., to O'Hara & Clark, Wauwatosa, $7,010 and $4,942 respectively; Quarry Overhead, Waukesha Co., to Eau Claire Eng. Co., Eau Claire, $100,072. Grand total $112,024.

PIERS AND WHARVES

BIDS ASKED

Calif., Stockton—WHARVES—Apr. 4, by City Council, rein.-con. wharves, untreated timber, creosoted or concrete piling, also 3,000 to 4,000 ft. railroad track. $250,000 or more.

CONTRACTS AWARDED

Calif., San Francisco—PIER SHED—State of California, Harbor Comn., Ferry Bldg., 2 story, 100 x 160 ft. timber shed extension at Pier 44, to L. Epp, 4745 Geary St., $26,877.

AIRPORTS

PROPOSED WORK

Neb., Omaha—American Airways, Inc., Lambert Field, Robertson, Mo. H. Dunwoodie, vice pres., airport hangar. Negotiating leasing 100 x 125 ft. lot from city.

Utah, Salt Lake City—City, administration and depot building at municipal airport, $40,000. W. D. Beers, city engr.

CONTRACTS AWARDED

Ia., Des Moines—City Council, J. A. Hamborg, clk., grading at municipal airport, to Union Constr. Co., 200 New York St., $22,000; removing trees, to Capital City Nursery Co., 4601 Southwest 9th St.

GRAIN ELEVATORS

PROPOSED WORK

Ont., Toronto—GRAIN ELEVATOR—Canada Malting Co. Ldt., Royal Bank Bldg., plans grain elevator addition, Bathhurst St. $100,000.

POWER AND LIGHTING

PROPOSED WORK

Missouri, Kansas and Oklahoma—St. Louis Industrial Gas Co., H. L. Ruppert, pres., 402 Pine St., St. Louis, Mo., preliminary plans natural gas pipe line from Hugoton Field, Kan., and Oklahoma to St. Louis, Mo., $25,000,000; also local distribution system in St. Louis, $2,000,000. K. Wilson, c/o owner, vice pres. Noted Jan. 7, under "St. Louis, Mo."

New York—New York State Electric Corp., 22 Central Ave., Ithaca, hearing before Pub. Serv. Comn., on undertaking electrical distribution line between hamlets of McClure and North Sanford, Broome Co.

N. Y., Big Flats — Elmira Water, Light & Railroad Co., Hulett Bldg., Elmira, applied to Pub. Serv. Comn. for permission to construct gas distribution system.

BIDS ASKED

New York—Apr. 5, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, furnishing, installing station and tunnel lighting equipment, incl. electric heating and toilet ventilation for part Independent System City-owned Rapid Transit Railroads between and adjacent to Church St., Manhattan Boro to Jay and 3rd Sts., Brooklyn Boro.

N. Y., Long Island City — Apr. 8, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, furnishing, installing auxiliary power equipment for Queens Line, Interborough System of City-owned Rapid Transit Railroads.

CONTRACTS AWARDED

Pa., Polk—See "Sewers."

PARKS AND SPORTS

PROPOSED WORK

Calif., Sacramento—State of California plans by G. B. McDougall, state archt., fair buildings, incl. educational and arts, farmers and stock raisers buildings, at State Fair Grounds. $250,000.

La., New Orleans—See "Commercial Buildings."

La., New Orleans—Tulane University, A. B. Dinwiddie, pres., sketches by Armstrong & Koch, Audubon Bldg., gymnasium building on campus between Freret and Willow Sts. $140,000. **Maturity soon.**

La., Shreveport — Centenary College sketches rein.-con., steel stadium, 10,000 seating capacity, at athletic field. $25,000.

Me., Orono—University of Maine, superintendents office, sketches by Little & Russell, 20 Newbury St., Boston, Mass., gymnasium addition. $25,000.

Mass., Winchester—Town, Bd. Selectmen, field house (recreation), at Leonard Field. $25,000—$35,000.

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Parks and Sports (Continued)

N. J., Barnegat — New Jersey State Park Comn., Trenton, has recommended to legislature acquisition and development 100 acres adjoining lighthouse for ocean front park development. To exceed $25,000.

N. Y., Long Island City—Dpt. Parks, W. R. Herrick, pres. Park Dpt., Arsenal Bldg., Central Park, New York, park and playground, 10 acres North Beach. $250,000. Site selected and will be purchased when funds become available.

Sask., Moose Jaw—City Engineer plans natatorium. $85,000.

BIDS ASKED

Connecticut—Davidson & Constable, archts., Strawberry Hill Rd., taking bids general and separate contracts beach development and clubhouse, Shippan Point, Long Island Sound, for Shippan Beach Club, P. L. Willis, in charge. Noted Jan. 21.

Ind., Elwood—City Park Bd., N. E. Watkins, pres., taking bids 1 story, basement, 35 x 78 ft. brick, asphalt, steel bath house, incl. steel lockers, yellow pine floors, plumbing, electrical work; also 90 x 190 ft. concrete, rein.-con. swimming pool, incl. filtration equipment, septic tank, pump house, pump, motor, water system, deepwell pump, wire fencing, flood lighting, electrical fixtures, at Calloway Park. $30,000. Leonard & Wolf, Frankfort, engrs. Noted Jan. 7.

Mo., St. Louis—Bd. P. Serv., City Hall, new bids about May 1, on revised plans 1 story, 18 x 125 ft. and 1 story, 25 x 125 ft. steel, glass greenhouses, 1 story, 25 x 125 ft. cold house, concrete founds., in Forest Park. F. A. Updegraff, 329 Municipal Courts Bldg., archt. Noted Jan. 28.

Mo., University City—Apr. 7, by University City Park Bd., A. E. Veith, chn., concrete work, etc., for 150 x 190 ft. rein.-con. swimming pool; 1 story, 80 x 120 ft., brick, concrete bathhouse. Excavation for swimming pool, etc., to be done by day labor under supervision. J. K. Monteith, c/o Bd., engr. Noted Jan. 7.

CONTRACTS AWARDED

Mass., Boston—City, Park Dpt., excavation, walks and drainage, at Rogers Park, Brighton, to J. P. McCabe, 507 East 1st St., South Boston. Est. $25,000.

Mass., Taunton — Segregansett County Club, c/o E. M. Corbett, archt., 49 Purchase St., Fall River, 1 story, basement, 40-110 ft., means locker, brick, timber, club grounds, to C. T. Alger, 40 West Britannia St., Taunton. Est. $25,000 or more. Noted Oct. 15.

N. Y., New York—See "Bridges."

N. Y., Sag Harbor—See "Commercial Buildings."

O., Columbus—Columbus Baseball Co., Neil Park, Columbus, concrete, steel stadium, 14,000 seating capacity, grading, etc., Glenwood Ave., to R. L. Wirtz, 88 North Front St., $165,000. Soon takes bids plumbing, heating and electrical work.

HEATING AND VENTILATING

PROPOSED WORK

Mass., Brookline—Town, Bd. Selectmen, 329 Washington St., changes at heating and lighting plant, incl. new boilers, etc., 46 Toppan St.

BIDS ASKED

New York—Apr. 5, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, furnishing, installing ventilation equipment for line D from 8th to Roosevelt Aves. and Line E from Nassau Ave. to Queens Plaza forming part Independent System City-owned Rapid Transit Railroads.

N. Y., Bedford Hills—Mar. 31, by Comrs. Correction, State Office Bldg., Albany, heating work, service lines, and connections, New York State Reformatory for Women; adv. E. N.-R. Mar. 24.

N. Y., Brooklyn—Apr. 13, by Comr. Dpt. Mental Hygiene, State Office Bldg., heating, power plant equipment, Brooklyn State Hospital.

N. Y., New York—Apr. 25, by Port of New York Authority, J. F. Galvin, ch., furnishing, installing ventilation equipment for West 178th Street tunnel of New York approach to George Washington Bridge; adv. E. N.-R. Mar. 24.

CONTRACTS AWARDED

R. I., West Warwick—Christ the King Roman Catholic Parish, J. A. Forest, pastor, heating in church, New London and Warwick Aves., to R. Renaud, 56 Cumberland St., Woonsocket; plumbing, to G. Patnaude, West Warwick; electrical work, to Phoenix Electric Co., West Warwick. Total est. $25,000. Noted Mar. 17, under Churches, "Contracts Awarded."

UNCLASSIFIED

PROPOSED WORK

Mass., Stockbridge — WAR MEMORIAL — Town, Building Comn., war memorial. $25,000 or more. Engineer not appointed.

N. Y., Jamaica—INDUSTRIAL DEVELOPMENT—Lewis & Valentine, A. E. Lewis, in charge, 253-02 Northern Blvd., Little Neck, industrial development, incl. rail and water facilities, on 180 acre tract, Hook Creek. **Maturity indefinite.** Site acquired.

N. Y., Springfield Gardens—COAL POCKET—United Fuel Serv., 282 South St., New York, 1 story, 22 x 40 ft. coal pocket, Main St. and Merrick Rd.

Okla., McAlester—OIL STORAGE TANKS—Phillips Petroleum Co., Philtower Bldg., Tulsa, soon lets contract four 12,000 gal. storage tanks, foundations, etc.

N. B., St. Andrews — LABORATORY — Dominion Biological Branch Dpt. Fisheries, A. G. Huntsman, dir., re-erecting laboratory, $85,000 incl. equipment.

BIDS ASKED

Mass., Boston—TUNNEL—Apr. 6, by Hospital Dpt., extending tunnel system at Boston City Hospital, Harrison Ave. To exceed $25,000. J. H. Ritchie & Associates, 250 Stuart St., archts. Noted Mar. 17.

Mass., Marshfield—STEPS—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Minn., Minneapolis—ASPHALT PLANT—Apr. 1, by F. S. Gram, city purch. agt., steel frame shed asphalt plant to house machinery and furnishing, placing machinery. $55,000. N. W. Elsberg, city engr.

Mo., St. Louis—ELEVATORS—See "Streets and Roads."

N. Y., Dannemora—STEAM DUCT—Apr. 14, by Commissioner Dpt. Correction, State Office Bldg., Albany, steam duct from Clinton Prison Power House Duct and Service Connection, Dannemora State Hospital.

N. Y., New York—STATION FINISH, etc.—Mar. 29, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., station finish work for Bway.-Lafayette St., 2nd Ave., Delancey St. and East Bway. stations of Rapid Transit R.R.; also furnishing, installing shoebeams, motor lead equipment and transite insulation on cars 207th St. Yard, Agreement "LO."

N. Y., Ogdensburg—ELECTRICAL WORK—Apr. 6, by Dpt. Mental Hygiene, State Office Bldg., Albany, electrical work, in connection with elevator and dumbwaiters, Central Kitchen and Ward Buildings, Central Group, Lawrence State Hospital.

N. Y., Ossining—ELEVATOR, etc.—Apr. 12, by Commissioner Correction, State Office Bldg., Albany, electric elevator, laundry, bath building in Sing Sing Prison; adv. E. N.-R. Mar. 24.

N. Y., Peekskill—FOUNDATION—Mar. 30, by Adjutant General Div. Military & Naval Affairs, Executive Dpt., Albany, additional foundation work, Peekskill State Armory.

N. Y., Poughkeepsie—PILING, etc.—Mar. 30, by Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, piling, dining room, and kitchen section of Building 14, Hudson River State Hospital.

O., Cleveland—BOILERS, STACK, etc.—Apr. 11, by Bd. Educ., F. G. [illegible]gan, dir., rein.-con., brick boilers, stack and coal vault, central heating plant for high school, 7351 Bway. $40,000. C. W. Hopkinson, Administration Bldg., archt. and engr. Noted Mar. 3.

Okla., Tulsa—FIRE ALARM EQUIPMENT—Apr. 1, by Bd. City Comrs., E. Logan, aud., municipal fire alarm equipment, incl. 50 fire alarm boxes, equipment to supplement that [illegible] use in 12 stations, central office [illegible] 16 box circuits, 6 each primary [illegible] arm circuits, 1 special telephone switchboard, 1 trick board, 1 bank of lamps, 1 card index system, 1 test board, 1 water still, 110 fire alarm box pedestals. $100,000. This work is being relet because former specifications were held to be noncompetitive in legal action brought by a local taxpayer. Furnishing, installing, wiring and underground cables awarded to Dodge Electric Co., 318 South Boulder St. $42,095 Work now underway. Smith & Senter, Philtower Bldg., archts. Noted Jan. 7.

CONTRACTS AWARDED

Colo., Beulah — VERMICULITE MINE DEVELOPMENT—E. F. Gobatti Eng. & Mchy. Co., 311 South Victoria Ave., Pueblo and Non-Metallic Corp., Chicago, Ill., will develop vermiculite mine, incl. buildings, roads, machinery, etc. Owner builds.

Ill., Kankakee—CEMETERY—Highland Memorial Park, 258 East Court St., general contract laying out 40 acre cemetery, incl. concrete paving, grading, drainage structures, landscaping, chapel building, caretakers quarters, fountains, sprinkler system, fencing, to Central Indiana Constr. Co., 3639 North Capitol Ave., Indianapolis, Ind. Est. $250,000. Contractor will start work at once.

Mass., Boston—ELECTRICAL WORK—Christian Science Publishing Society, 107 Falmouth St., electrical work on sub-station, for publication building, Norway, Falmouth and Clearway Sts., to Hixon Electric Co., 22 Elkins St., South Boston. Est. $25,000 or more. Noted Aug. 27, under "Buildings—Unclassified."

Mass., Boston—PLUMBING—Commonwealth of Massachusetts, Dpt. P. Wks., plumbing in office building, Nashua St., to J. S. Cassedy, 133 Austin St., Cambridge, est. exceeds $25,000; electrical work, to M. B. Foster Electric Co., 514 Atlantic Ave., Boston, est. exceeds $25,000. Noted Dec. 17, under "Public Buildings, Contracts Awarded."

Okla., Picher — ORE CONCENTRATING PLANT—Eagle Picher Lead Co., c/o Temple Bank Bldg., Main and Commercial Sts., Cincinnati, O., concrete and excavation work for 114 x 184 ft., rein.-con., steel mill building, 3,600 ton capacity, incl. 1,200 ton hopper, x 68 x 71 ft. deep and 5,000 ton hopper, 5 112 x 26 ft. deep, to Tri-State Contractor, I Tulsa: structural steel, to Muskogee Iron W Muskogee, constructing 8,000 ft. switch tra to Northeast Oklahoma R.R. Co., Miami. To est. $400,000. Noted Mar. 10, under "Contra Awarded."

Tenn., Nashville — RADIO BROADCASTIN STATION—National Life & Accident Insura Co., 301 7th Ave., 50,000-watt radio transm sion station (WSM) consisting 1 story, 18 x ft. with L 37 x 43 ft., brick, concrete buildi to Angle-Blackford, Independent Life Bld $24,000. Noted Feb. 4.

MATERIALS

BIDS ASKED

GRAVEL—**Boone, Ia.**—Apr. 6, at office Aud tor Boone Co., 38,000 cu.yd. construction grav and 40,000 cu.yd. maintenance gravel.

PIPE, etc.—**Corydon, Ia.**—Mar. 28, at offi Auditor Wayne Co., 4,935 lin.ft. corrugated cu vert pipe, 18-40-degree elbows, 31,500 gal. gaso line and lubricating oil.

LATHS, CULVERT PIPE, etc.—**Ft. Dodge, Ia** —Apr. 4, by D. J. Coughlin, city clk., 2 x 4 2 x 6, 2 x 10, 2 x 12, 3 x 12, 4 x 4, 6 x 6 4 x 6, 2 x 2, 1 x 4 laths by the bunch; 2 x 12 4 x 4 in. lengths of 8 to 16 ft. tile, Nos. one and two 6-to 18-in. metal culverts, cement per sack of 100 lb., 9- to 48-in. diam. c.i. manhole covers per lb. as quantities needed, 10 bbl. motor oil, 15,000 gal. gasoline, lamps, for use during 1932.

LUMBER, etc.—**Hampton, Ia.**—Mar. 28, at office Auditor Franklin Co., 91,340 bd.ft. Class D lumber, 2,780 lin.ft. red cedar piling, 1,050 lin.ft. red cedar posts.

GRAVEL, SAND, etc.—**Louisiana**—Mar. 29, by State Hy. Comn., Louisiana Natl. Bank Bldg., Baton Rouge, washed and screened gravel, 40 sand-clay gravel, reef shell, clam shell, crushed limestone, slag and sand required for month of April. H. B. Henderlite, hy. engr.

ASPHALT—**Boston, Mass.**—Mar. 29, by Supply Dpt., P. A. Chapman, supt., 1200 tons road asphalt OA-2; 300,000 gal. 45% asphaltic road oil to P. Wks. Dpt. as specified; 100 tons asphaltic cement for construction, to be delivered as required to P. Wks. Dpt.

EMULSIFIED ASPHALT, etc.—**Boston, Mass.** —Mar. 30, by Supply Dpt., P. A. Chapman, supt., emulsified asphalt for cold patching, as specified, to be delivered on such streets as may be designated by commissioner, $5,000 or more; non-asphaltic road oil as specified and delivered as required to Park Dpt., $5,000 or more.

SEWER PIPE—**Boston, Mass.**—Mar. 31, by Supply Dpt., P. A. Chapman, supt., furnishing c.i. sewer pipe, $5,000 or more; 200,000 sewer bricks, all above, to Sewer Div., delivered as required.

CURB—**New York, N. Y.**—Mar. 30, by S. Levy, pres. Manhattan Boro, Municipal Bldg., 4,000 lin.ft. 6 in. granite corner curb (cut to 12 ft. radius).

PIPE, etc.—**Versailles, Pa.**—Mar. 28, by R. A. Jack, boro secy., 15 and 18 in. terra cotta pipe, common brick or No. 2 paving brick, manhole castings and steps, trap castings, stench plates, ready mixed cement, sand and jute. R. C. Bayne, 502 5th Ave., McKeesport, engr.

PIPE—**Dallas, Tex.**—City, c/o E. Goforth, secy., taking bids 20,000 ft. 6 in., 5,000 ft. 8 in., 2,000 ft. 10 in., 500 ft. 12 in. and 150 ft. 15 in. pipe, twenty-five 4 x 4, one hundred 8 x 6, and two hundred 6 x 6 common wyes; one hundred fifty 6 in . ⅛, twenty-five 6 in. ¼ and one hundred 6 in. 1/16 curves, 1,000 six in. stoppers for Sanitary Sewer Dpt.

STEEL—**De Pere, Wis.**—See "Bridges."

REFINED PAVING ASPHALT, etc.—**London, Ont.**—Mar. 28, by Chairman and Members No. 2 Committee, at office City Clerk, furnishing corporation of the city, with refined paving asphalt, road oil, Portland cement, limestone dust, broken stone, sewer pipe, (vitrified and concrete), land tile, and iron castings. W. P. Near, city engr.

CAST IRON CASTINGS, etc.—**Montreal, Que.** —Harbour Comrs., L. H. A. Archambault, secy., in market cast iron castings, brass and bronze castings, oils and greases for year.

CONTRACTS AWARDED

CRUSHED STONE, etc.—**New Britain, Conn.** —See "Streets and Roads."

PIPE and FITTINGS—**Highland, Ill.**—City, 425 ft. 16 in. Class A bell and spigot c.i. pipe and fittings, to U. S. Pipe & Fdry. Co., 923 Peoples Gas Bldg., Chicago, Ill., $1,235.

PIPE, etc.—**Millstadt, Ill.**—City, 35,125 ft. 2- to 8-in. c.i. pipe, 48 fire hydrants, to A. P. Poirot, 721 East Washington St., Belleville. $26,722. Est. $40,000. Noted Dec. 17.

PIPE, LUMBER, PILING, etc.—**Waterloo, Ia.** —F. W. Esher, aud. Black Hawk Co., 9,296 ft. 15- to 42-in. corrugated culvert pipe, to Iowa Culvert & Pipe Co., Des Moines, $6,287; 75,000 gal. gasoline and 65 bbl. lubricating oil, to Mid Continental Petroleum Co., Waterloo, at $0.06½ and $0.42 per gal. respectively; treated lumber, to Platte-Overton Co., Council Bluffs, $2,261; untreated lumber, to Cedar Lumber Co., Cedar Falls, $4,369. Noted Feb. 18.

Materials (Continued)

HYDRANTS, etc.—**Boston, Mass.**—City, Dpt. P. Wks., J. A. Rourke, comr., hydrants, gates as specified, to Cambridge Machine & Tool Co., 150 Medford St., Somerville, $5,500.

ROAD OIL—**St. Paul, Minn.**—C. A. Carlson, city purch. agt., 2,100,000 gal. No. 1 road oil, to Standard Oil Co. of Indiana, 1300 Harmon Pl., Minneapolis, at $0.0366 per gal. Noted Feb. 18.

STEAM ASHES—**Long Island City, N. Y.**—G. U. Harvey, pres. Queens Boro., Queens Subway Bldg., 10,000 cu.yd. steam ashes, to Empire Cinders Delivery Corp., East River and 59th St., New York, $7,400. Noted Feb. 11.

STEEL—**Pennsylvania**—See "Railways."

CEMENT, etc. — **Richmond Va.** — See "Sewers."

CAST IRON CONDUIT—**Montreal, Que.**—City, 3,234 tons c.i. conduit pipes, to Canada Iron Foundries Ltd., 28 Victoria Sq., $150,381.

EQUIPMENT

PROPOSED WORK

PUMP—**Vallejo, Calif.**—City, A. Edgcumbe, clk., purchasing 1,000 g.p.m. pump for municipal water plant. T. D. Kilkenny, city engr.

GAS CYLINDERS — **Omaha, Neb.** — Omaha Blaugas Co., 27th and Boyd Sts., will purchase this year 100 lb. gas cylinders for transporting cooking gas for farms and rural communities. $10,000. L. R. Forsyth, secy. and treas.

STREET SWEEPER—**Wisconsin Rapids, Wis.**—City, F. L. Rourke, clk., soon takes bids street sweeper.

BIDS ASKED

BATTERY MATERIAL—**Boston, Mass.**—Mar. 28, by Dpt. School Bldgs., furnishing, delivering battery material and other electrical supplies as specified. $5,000 or more. L. K. Rourke, Dpt. School Buildings, supt.

GRADER—**Moorehead, Minn.**—Apr. 5, by Clay Co., one 10-20 hp. or larger motor patrol grader. H. R. Grove, Moorhead, co. hy. engr.

GENERATOR UNIT—**St. Paul, Minn.**—Mar. 28, by State Building Comn., H. Rines, secy., 308 State Capitol, furnishing, installing 600 kw. engine generator unit on foundation already prepared. Pillsbury Eng. Co., 1200 2nd Ave. S., Minneapolis, engr.

PUMP — **Greenville, Miss.** — Apr. 5, by G. Drew, city clk., 1 vertical type 6 in. wood trash pump, direct connected to 40 hp. squirrel cage 220 volt 3-phase 60 cycle motor, especially designed for starting across the line; one G. E. starter, pump to deliver 1,000 g.p.m. against 64 ft. head.

POWER PLANT EQUIPMENT — **Brooklyn, N. Y.**—See "Heating and Ventilating."

FIRE ENGINE—**Port Edward, N. Y.**—Apr. 15, by J. Murray, village trustee, new fire engine. $13,000.

PUMPER, etc.—**Portsmouth, O.**—Apr. 1, by City, F. E. Sheehan, mgr., 1 quadruple combination pumper, $12,500; 1 triple combination pumper, $10,500; miscellaneous equipment for pumpers, $1,000; fire hydrants, $1,500.

COOLING TOWER, etc.—**Pitcairn, Pa.**—Apr. 1, by Boro, c/o M. Hicks, secy., 320 Center Ave., furnishing, delivering, erecting 660 g.p.m. atmospheric or forced draft type water cooling tower for raw water cooling in connection with heat exchnagers for cooling jacket water on 960 hp. and 360 hp. Diesel engine, soft water to be cooled from 120 to 80 deg. Alternate bids on tower equipped with heat exchangers to cool the jacket water on No. 107-96 Griscom Russell style TM and size 5, 16 x 20 Schutte & Koerting heat exchangers.

PUMPING STATION EQUIPMENT—**Menomonee Falls, Wis.**—Village, W. H. Meyers, clk., taking bids pumping station equipment, incl. 500 g.p.m. deep well turbine pump; 500 g.p.m. electric motor driven horizontal centrifugal booster pump; mercury type water level pressure regulator. P. L. Clark, Appleton, engr.

REFRIGERATION PLANT—**Grove, Ont.**—L. Harris in market electric refrigeration plant, capable of cooling 18 cans of milk.

CONTRACTS AWARDED

GATE VALVES — **Los Angeles, Calif.** — City Council, furnishing gate valves under Spec. 2740, to Water Works Supply Co., 2326 East 8th St., $2,192.

SLUICE GATES — **Boston, Mass.** — Commonwealth of Massachusetts, Metropolitan Dist. Comn., sluice gates at Chestnut Hill Pumping Station, Brookline, to Chapman Valve Mfg. Co., 71 A St., South Boston. Noted Mar. 10, under "Waterworks."

TRAFFIC SIGNALS—**Boston, Mass.**—City, Supply Dpt., P. A. Chapman, supt., isolated automatic traffic signals, to Signal Service Corp., 6 Beacon St., $8,916.

GRADERS and TRUCKS, etc.—**Omaha, Neb.**—Douglas Co., G. Berger, clk. 2 caterpillar blade graders and one 65 hp. caterpillar tractor, to Flowers Tractor & Equipment Co., 1007 Leavenworth St., Omaha, $9,686; two 2½ F.W.D. trucks, to Geiger & Putney, Inc., 7th and Q Sts., $5,745 each; two 2-ton trucks, to White Co., 20th and Leavenworth Sts., one $2,932 and other $3,232.

FOREIGN

Argentina — Minister of Agriculture de Tomaso, Buenos Aires, plans 400 tons per day crude oil refinery at La Plata, $1,250,000.

Australia, Melbourne—Apr. 11, by City Clerk, one 7½ hp., three 8 hp. and two 10 hp. 400 volt 3 phase lift motors complete with life control gear.

Greece, Piraeus—Ford Motor Co., Dearborn, Mich., received permission from Greek Government to construct automobile manufacturing and assembly plant. All but expert mechanical help will be Greek workmen.

New Zealand, Wellington—June 2, by Manager New Zealand Government Railways, 1 butt and arc welding sets suitable for use in 220 volt, 50 period single phase supply; one 15 ton electrically operated overhead traveling crane; one engine lathe; one spindle grinder; 3 portable drilling machines radial and non radial.

Rumania, Bucharest—Apr. 2, by Rumanian State Railway Administration, 3,400 tons creosote.

South Africa, Johannesburg—Metro-Goldwyn-Mayer, 1540 Bway., New York, theatre, to A. Bennett, Johannesburg. Est. $700,000. Noted Jan. 14.

Union Socialist Soviet Republics—Soviet Russia, c/o Amtorg Trading Corp., 261 5th Ave., New York, plans in progress developing new town called Zaporozhe, in Ukraine. $15,000,000.

U. S. S. R., Leningrad—Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, will soon hold architects competition for design childrens' culture center, theatre, gymnasiums, club rooms, etc. $1,700,000.

Commercial Buildings

PROPOSED WORK

Calif., Long Beach—Medico-Dental Building of Long Beach Ltd., plans by G. S. Underwood & Co., California Reserve Bldg., Los Angeles, 10 story, 150 x 200 ft., Class A rein.-con., steel medical building, Ocean Ave. $1,000,000.

Calif., Sacramento—See "Sports and Parks."

Calif., Van Nuys—Los Angeles City Construction Dpt., City Hall, Los Angeles, C. O. Brittain, supt., plans completed Los Angeles Branch City Hall, 2 story, basement, 145 x 225 ft., with 150 ft. tower, 48 ft. square, steel, rein.-con., found. supported by 435 concrete piles driven 25 ft. deep, steel truss and concrete roof, granite steps and buttresses, electric elevator, sprinkling system, steam heating or electric heating, 14410 Sylvan St. $275,000. Noted Feb. 11.

Conn., Fairfield—St. Emory's Roman Catholic Parish, B. Biro, pastor, sketches by J. A. Jackson, 30 Whitney Ave., New Haven, 1 story, basement, tapestry brick, stone church. $150,000.

Conn., New Haven—J. H. Evans Private Hospital, 1488 Chapel St. sketches by Norton & Townsend, 405 Temple St., altering and constructing brick hom[illegible]pathic hospital addition, Chapel St. $150,000 or more.

Ill., Chicago—Edgewater Housing Corp., c/o A. D. Levy, archt., 2005 North Kedzie Ave., two units 2 story, basement, 40 x 185 ft. apartment building, 1 story, 15 x 50 ft. service building, brick, concrete, steel, stone, plain found. [illegible]40 North Hermitage St. $150,000. **Matur[illegible]**

N. [illegible]—Nimmons, Carr & Wright, archts., 3[illegible]h Michigan Ave., Chicago, Ill., soon take bids 3 or more story department store, on 300 x 450 ft. site, Main and Anderson Sts., for Sears, Roebuck & Co., Arthington and South Homan Sts., Chicago, Ill. and Retail Store Div., E. Ford, in charge, Roosevelt Blvd., Phila., Pa. $1,000,000. Noted Jan. 21.

Ill., Springfield — State of Illinois, Capitol Bldg., plans by State Div. of Architects, Capitol Bldg., repairing capitol dome, incl. new structure, steel, bracing, shoring copper. $200,000.

La., New Orleans—G. R. Bartling, Inc., archts., 802 Paul Brown Bldg., St. Louis, Mo., soon let sub-contracts for 7 story, basement, 40 x 150 x 160 ft., rein.-con., stone, terrazzo, tile club and hotel building, incl. pile found., superstructure, swimming pool, heating system, plumbing, mechanical work and tennis courts for Knights of Columbus, 836 Carondelet St., c/o C. A. Ahern, Grand Knight. Noted Feb. 4, under "Contracts Awarded."

Mass., Amherst—Commonwealth of Massachusetts, F. Kenney, treas., Massachusetts State College, 2 dormitories at Massachusetts State College. $150,000-$175,000. Architect not appointed.

Mass., Barnstable—Barnstable County Comn., Court House, enlarging hospital. To exceed $150,000. Architect not appointed.

Mass., Boston—Owner, c/o G. B. Washburn, archt., 74 Highland Ave., Arlington, preliminary sketches store, Arlington St. $150,000 or more.

Mass., Boston—City, Dpt. School Buildings, 2 story, basement, brick, stone, school, plain found., Greenwood St., Hyde Park Sect. $150,000.

Mass., Braintree—Town, D. E. Fisher, supt. schools, Town Hall, altering and constructing 2 story, basement brick high school addition, Washington St. $150,000-$160,000. Architect not appointed.

Mass., Braintree—Town, H. Avery, chn. Bd. Selectmen, branch library, East Braintree. $150,000. Architect not appointed.

Mass., Dorchester — City of Boston, Library Dpt., branch library, Franklin Park Sect. $150,000. Architect not appointed.

Mass., Groveland—Town, F. R. Hardy, chn. building com., plans by H. L. Meacham Associates, 120 Front St., Worcester, and takes bids about April, 2 story, basement, brick, stone school, concrete found. $150,000. Noted May 28.

Mass., Medford — City, Mayor's Office City Hall, 2 fire stations, 1 at Fulton Heights and other in Wellington Sect. $150,000. Architect not apponited.

Mass., New Bedford—North Congregational Church, W. B. Mathews, pastor, 212 Hawtorne St., altering and constructing church addition, Purchase and Lee Sts. Architect not appointed.

Mass., New Bedford—Old Dartmouth Historical Society, Z. W. Pease, sketches by W. Tallman, 222 Union St., altering and constructing museum addition. $150,000.

Mass., Springfield—Springfield National Bank, E. J. Wheeler, pres., 1531 Main St., rebuilding bank, store, office, Main St., recently destroyed by fire. $150,000. Architect not appointed.

Mass., Springfield—Christ Church Cathedral, Chestnut St., plans by Kirkham & Parlett, 25 Harrison Ave., brick, stone chapel, Chestnut St. $150,000.

Mass., West Newton—Garden City Auditorium, R. C. Henry, pres., 12 West St., Boston, sketches by Henry & Richmond, 12 West St., Boston, 2 story, basement, 90 x 150 ft. theatre, and 30 x 75 ft. public auditorium, each brick, steel. $150,000 or more.

N. H., Durham—University of New Hampshire, c/o E. H. Lewis, 3 story, basement, and 2 wings, 60 x 140 ft. girls' dormitory, brick, stone, plain found., on campus, to Davison & Swanberg, 61 Amherst St., Manchester. Est. $175,000. Owner soon takes bids heating, plumbing, electrical work. Noted Mar. 10.

N. J., East Orange—Metropolitan Building & Realty Co., 264 Main St., East Orange, rejected bids Mar. 17, general contract 4 story, basement, 100 x 140 ft., brick, steel, rein.-con. apartment, 499 William St. $300,000. Warren & Warren, 31 Clinton St., Newark, archts. Noted Mar. 10.

N. J., Long Branch — Monmouth Memorial Hospital, 3rd Ave., hospital, internes living quarters, power house and laundry, 3rd and Pavilion Aves. $150,000. **Maturity indefinite.**

N. J., Newark—D. J. Scrocco, archt., 440 Central Ave., Orange, rejected bids 2 story, basement, brick, stone, steel church and rectory, Warwick and Lang Sts., for St. George Greek Catholic Church, G. N. Kandra, pastor, 89 Astor St. Est. $150,000. F. Nagy & Associates, Bethlehem, Pa., assoc. archts. Noted Feb. 10 Daily.

N. J., Newark—F. C. Shattuck Co., 58 West 23rd St., New York, 1 or more restaurant, catering and candy shops units here and in vicinity as part general expansion program. $150,000. **Maturity indefinite.**

N. J., Red Bank — Clayton & Magee, 19 Broad St., altering and constructing 3 story, basement, brick, steel business building addition, Broad St. near Mechanic St. $150,000. **Maturity indefinite.** Property purchased.

N. J., Union City—Sears, Roebuck & Co., Roosevelt Blvd., Phila., Pa., E. Ford, in charge, plans by Nimmons, Carr & Wright, 333 North Michigan Ave., Chicago, Ill., 3 story, basement, tower store, Hudson Blvd. and Hackensack Turnpike. $1,000,000. Site acquired.

N. J., Verona—Corporation forming, c/o P. J. Jossier, archt., 240 Broad Ave., Palisades Park, five hundred (1 family) 2½ story, basement, 30 x 30 ft. brick, frame dwellings, $3,000,000.

N. Y., Brooklyn—Sears, Roebuck & Co., Roosevelt Blvd., Phila., Pa., E. Ford, in charge, plans by Nimmons, Carr & Wright, 333 North Michigan Ave., Chicago, Ill., 3 story, basement, tower department store, Beverly Rd. and Bedford Ave. $1,000,000. Site acquired.

N. Y., Cohoes—St. Rita's Church, M. A. Galantic, pastor, bids in spring, new church, Lancaster St. $350,000. Architect not appointed. Noted Nov. 13, 1930.

N. Y., Garden City—Greenmac Realty Corp., c/o S. D. Schwartz, 160-16 Jamaica Ave., Jamaica, housing development, incl. 35 brick houses, on 116 lots, Pine St. near Clinton Rd. $500,000.

N. Y., Jamestown—Adjutant General, Div. Military & Naval Affairs, Albany, bids early in April, armory. $250,000. Noted Jan. 7.

N. Y., Little Neck—Lewis & Valentine Co., A. E. Lewis, in charge, 253-02 Northern Blvd., garden apartments, near Long Island R.R. station. To exceed $1,000,000. First unit will mature in summer or later. Ultimately 7 units.

N. Y., Peekskill—Jacob Breen, c/o J. E. McGolrick Co., 55 West 42nd St., New York, residential development, incl. 100 houses, private beach, pier development, on tract of 600 lots, Peekskill Brook and Lake Peekskill.

Pa., Pittsburgh—Jefferson Memorial Park Corp., 2882 West Liberty Ave., G. W. West, secy. and treas., sketches by A. E. Harley, 316 McKerchy Bldg., Detroit, Mich., for Jefferson Memorial Building, incl. cemetery buildings, administration, chapel, chimes buildings, probably stone, Dravosburg Rd., near here, owner will do light grading this spring by own forces, heavy grading and buildings mature 1933. R. F. Tinner, 811 Box Bldg., Detroit, Mich., landscape archt.

Pa., Pittsburgh—Methodist Episcopal Church Union, 7th and Smithfield Sts., plans by L. Wolfe, Grant Bldg., Epworth Fresh Air Farm,

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Commercial Buildings (Continued)

(1st unit) includes assembly hall, dining room, kitchen, playrooms. Perry Hy. at Kriders Corners near here. Blum Weldin & Co., engrs., 417 Grant St., drawing plans and take bids in late spring entrance road, water supply system, sewers, etc. $200,000.

Pa., Pittsburgh—W. T. Grant Co., 1441 Bway., New York, H. T. Willis, in charge of construction, general contract bids after Apr. 1, 2 story, basement, brick, terra cotta, granite, steel store, concrete found., 510 Market St. $150,000. Building on site to be wrecked. P. A. Cunius, c/o owner, archt.

R. I., Providence—G. DeBenedictis, Taunton Ave., East Providence, 3 story, basement, brick store, apartment, Jackson St. $150,000. Architect not appointed.

R. I., Providence—Providence College, L. O. McCarthy, c/o M. Sullivan, archt., 100 Boylston St., Boston, Mass., preliminary sketches, brick science building, River and Eaton Sts. $150,000 or more.

Tenn., Nashville—Vanderbilt University, J. H. Kirkland, chancellor, sketches rebuilding Wesley Hall, 3 story, concrete, brick, stone, on campus, recently destroyed by fire. $350,000.

Va., Richmond—S. S. Kresge, 2727 2nd St., Detroit, Mich., c/o Real Estate Dpt. in charge, soon lets general and separate contracts 3 story, 33 x 150 ft. department store, East Broad St. $150,000.

Wis., Appleton—Lawrence College, H. W. Wriston, pres., plans by C. H. Walcott, 435 North Michigan Ave., Chicago, Ill., 2 story, basement, 50 x 78 ft., rein.-con., brick library. $150,000.

Ont., Toronto—By-laws to be submitted to ratepayers for police and fire station, Ward 7, $180,000; fire halls $55,000.

Que., Montreal—A. H. Milne, dir. Buildings, preparing plans Drummond School addition, for Protestant Bd. School Comrs. $150,000.

Que., Montreal—Ryan & Co. Ltd., contractors, 5647 Park St., refused to sign contract for construction St. Jean Baptist Market, owing to demand of City to change labor weekly. New bids this month. Noted Mar. 17, under "Contracts Awarded."

BIDS ASKED

Calif., San Mateo—See "Contracts Awarded."

Ind., Anderson—Apr. 1, by School Comrs., Washington Grade School, 2 story, basement, rein.-con., brick, steel, stone, Columbus Ave. $150,000. E. F. Miller, 514 Anderson Bank Bldg., archt. Noted Dec. 24.

Ind., Ft. Wayne—Apr. 4, by Forest Park Methodist Episcopal Church, concrete foundation, 2 pipe heating plants, steel sash, plumbing and electrical work for church. $40,000. LeR. Bradley, 221 West Wayne St., archt. Noted Aug. 14, 1930.

Ind., Knightstown—Apr. 14, by Bd. Comrs. Indiana Soldiers and Sailors Childrens Home, 2 story, rein.-con., brick, tile home. $150,000. McGuire & Shook, 1401 Fletcher Trust Bldg., Indianapolis, archts. Noted Jan. 14.

Ind., Lafayette—Apr. 5 (extended date), by Purdue University, Unit 2 Mechanical Engineering Building, 3 story, basement, 60 x 230 ft., rein.-con., brick, steel, stone, tile, on campus. $200,000. W. Scholer, 210 Wallace Blk., archt. Noted Feb. 25.

Mass., Boston—Apr. 6, by City, G. R. White Fund, City Hall, and Coolidge, Shepley, Bulfinch & Abbot, archts., Ames Bldg., 2 story, basement, brick, steel Health Unit 4, additions, plain founds., Blue Hill Ave. and Savin St., Roxbury. $150,000. Noted Feb. 18.

Mass., Brookline—Mar. 30, by Harvard Congregational Church, A. G. Leavitt, pastor, 35 Vernon St., and Allen & Collens, archts., 75 Newbury St., Boston, rebuilding 1 and 2 story, basement, stone church, plain found., Harvard St. corner Marion St. $200,000. Noted Feb. 25.

Mass., Cambridge—Mar. 30, by St. Peters Episcopal Church, and Allens & Collens, archts., 75 Newbury St., Boston, remodeling 2 story, basement, brick, steel, plain found., Mass. Ave. and Vernon St. $150,000 or more. Noted. Mar. 3.

Mass., Everett—St. Anthony's Roman Catholic Church, taking bids altering and constructing 1 and 2 story, basement, brick, stone church addition. $1500,000. A. B. Casale, 192 Boylston St., Boston, archt.

Mass., Groton—Mar. 31, by Groton School, E. Peabody, headmaster and H. D. Chandler, archt., 75 Newbury St., Boston, altering and constructing 3 story, basement, brick, stone, steel school addition, plain found. $150,000. Noted Feb. 25.

Mo., St. Louis—May 17, by Bd. P. Serv., City Hall, (1st unit) 7 story, basement, 322 x 493 ft., rein.-con., steel, brick, stone auditorium, Market St., from 14th to 15th Sts. $3,000,000. Total est. $5,000,000. Plaza Comn., Inc., c/o La Beaume & Klein, 716 Amer. Trust Bldg., archts. and engrs. Contract for sinking test caisson and concrete pier, to Fruin-Colnon Contg. Co., 501 Merchants-Laclede Bldg., $650. Noted Feb. 25.

N. H., Exeter—St. Michael's Roman Catholic Church, D. J. Cotter, pastor, bids about Apr. 1, 2 story, basement, brick, stone, convent, plain found., Water St. $150,000. J. J. Shaughnessy, 80 Boylston St., Boston, Mass., archt. Noted June 4.

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N. J., East Orange—Krieger & Kriegar, 407 Main St., bids on separate contracts Apr. 15, 4 story, basement, 100x104 ft., brick, steel, terra cotta apartment, Melmore Gardens and Lincoln St. $300,000. Warren & Warren, 31 Clinton St., Newark, archts. S. Shaw & Co., 24 Commerce St., Newark, engrs.

N. J., Jersey City—Medical Arts Building Co., B. Gorlin, pres., Concourse Bldg., bids about Apr. 1, separate contracts, 4 story, basement, 100 x 160 ft. medical building, Hudson Blvd. and Fairmount Ave. $250,000. C. Shilowitz, 26 Journal Sq., archt. Noted Feb. 11.

N. J., Jersey City—D. J. Sorrocco, archt., 440 Central Ave., Orange, bids about May 15, general contract 13 story, basement, 100 x 150 ft., brick, steel, rein.-con. office and store, Summit Ave., for J. Siegel, Inc., c/o architect. Noted Jan. 21.

N. J., Red Bank—Boylan & Levine, archts., 143 Albany St., New Brunswick, bids about May 15, 2 story, basement, brick, steel theatre, for Red Bank Amusement Co., c/o architects. $250,000. R. C. Burke, 76 Summit Ave., Plainfield, engr. H. Meselewitz, 3 Elm Row, New Brunswick, consult. engr. Noted Dec. 10.

N. J., Union—F. A. Elsasser, archt., 1000 Stuyvesant Ave., bids about June 15, 3 story, basement, brick, steel church for Congregation Presbyterian Church, c/o architect. $150,000. Owner still raising funds. Noted Jan. 21.

N. Y., Astoria—See "Contracts Awarded."

N. Y., Industry—Mar. 30, by Superintendent Standards & Purchase, Executive Dpt., Capitol, Albany, enlarging service cottage, State Agricultural and Industrial School. Noted Feb. 11.

N. Y., Saratoga Springs—Apr. 28, by P. B. Noyes, chn., Saratoga Springs Comn., 376 Bway., drink hall, Saratoga Springs. Noted Feb. 4 under "Contracts Awarded."

N. Y., Yonkers—See "Contracts Awarded."

N. C., Fayetteville — Mar. 29, by Building Com., State Normal School, H. L. Cook, chn., dormitory and training school buildings, State Normal School. G. R. Berryman, 102 West Hargett St., Raleigh, archt.

O., Cleveland—Apr. 8, by St. Casimers Roman Catholic Church, A. A. Radecki, pastor, 8223 Sowinski Ave., 3 story, basement, 64 x 88 ft. school, 8223 Sowinski Ave. $150,000.

Pa., Torrance — Apr. 6, by Torrance State Hospital, c/o C. R. McKinnis, supt., 1 story, basement, 92 x 218 ft. with 23 x 70 ft. wing, brick, tile, limestone dining room and kitchen. $173,618. B. H. Prack, Martin Bldg., Pittsburgh, archts. Noted Mar. 17.

R. I., East Prvidence (br. Providence)—Town, bids about Apr. 1, 1 and 2 story, basement additions to Bliss Grade School, Orlo Ave., and Arthur E. Platt School, Burnside Ave., plain founds. $150,000. Traficante & Niebuhr, 175 Taunton Ave., archts. Noted Feb. 25.

Tex., Austin—Apr. 11, by State Bd. Control, C. Teer, chn. State Hy. Comn., G. Gilchrist, engr., highway building. $500,000. Noted Feb. 11.

Wis., Milwaukee—Mar. 31, by Bd. School Directors, altering and constructing additions to 27th Street School, incl. excav., concrete and masonry, steel, carpentry, sheet metal, tile, marble, plumbing, sewerage, heating, ventilating, etc., also plumbing, sewerage, heating, ventilating, electrical work, etc., for Rufus King High School. G. E. Wiley, c/o School Bd., archt. Noted Mar. 10, under "Contracts Awarded."

Wis., Port Edwards—Mar. 30, by Childs & Smith, archts., 720 North Michigan Ave., Chicago, Ill., and Mar. 31, by Bd. Educ., F. H. Rowland, clk., Port Edwards, altering and constructing 2 story, basement, brick, steel high school addition. $150,000. Noted Jan. 7.

Wis., Plymouth—Mar. 29 (extended date), by School Bd. and M. Tullgren & Sons Co., archts., 20 Prospect Ave., Milwaukee, school, North St. Noted Mar. 10.

CONTRACTS AWARDED

Calif., San Mateo—Jean de St. Cyr, El Cerrito Ave., Hillsborough, 6 story, basement, brick, steel apartment building, El Camino Real, separate contracts. W. Lowe, archt., 354 Hobart St., Oakland, taking bids. Est. $500,000.

Calif., Sacramento—California State Life Insurance Co., California State Life Insurance Bldg., 4 story, basement, steel, brick office addition, 10th and J Sts., to Campbell Constr. Co., 800 R St., $150,000.

Ind., Indianapolis—Indiana Insane Hospital, 3000 West Washington St., general contract 3 story, basement, men's building, rein.-con., brick, stone, at Central State Hospital, to Service Constr. Co., 301 Castle Hall Bldg., $115,254; heating and ventilating, to Hays Bros., 236 West Vermont St., $10,681; plumbing, to Strong Bros., 309 North Alabama St., $10,847; electrical work, to C. L. Smith Electrical Co., 122 South Pennsylvania St., $3,290. Grand total, $140,072. Noted Feb. 18.

Mass., Fall River—Free Home for Cancer Incurables, c/o Rose Hawthorne Lathrop Hospital, Bay St., 2 story, basement, 50 x 240 ft. free home for cancer incurables, Woodman St., day labor. F. Collins, supt. at site. $150,000. J. I. Higgins, Borden Blk., archt. R. D. Kimball, 6 Beacon St., Boston, engr. Taking bids heating, plumbing, electrical work.

Mass., Lynn—St. Jean De Baptiste Church, J. S. Vermette, pastor, 7 Endicott St., remodeling and constructing 2 story, basement, brick school addition, plain found., Endicott St., day $150,000. E. J. Laliberte, 88 Main St., Bo ton, archts. Noted Feb. 4.

Mich., Ann Arbor—T. Tanner, archt., Nickels Arcade, 2 and 3 story, basement, b rein.-con., steel, stone parish hall, plain fo South 4th St., to James Baird & Co., Ann A and 101 Park Ave., New York, for Bethl Evangelical Congregation, Ann Arbor. $150,000. Contractor now awarding sep contracts from Ann Arbor office. Noted Jan.

Minn., Winona—Bd. Educ., A. H. Kressin, 2 story, basement, 125x196 ft., rein.- brick school, to T. S. Willis, Janesville, $1 861. Noted Feb. 25.

N. J., Kingston—F. F. Durnag, archt., Park Ave., New York, general contract 1 st basement, wing, brick, steel, rein.-con. cha to D. W. O'Dea, 420 West Duncannon St., Ph Pa., for St. Joseph's College, J. Dunn, p Acqueduct, Princeton. Est. $150,000. No Mar. 17.

N. J., Millington—Bonnie Brae Farm for B Millington, general contract rebuilding 1 an story, basement, brick, stone, steel school, B nie Brae Farm, to J. S. Hamilton, Mt. A Rd., Bernardsville. Est. $150,000.

N. J., Newark — Newark Ear & Eye In firmary, 77 Central Ave., general contract alt ing and constructing 4 story, basement, bri steel hospital addition, to F. Briscoe Co., I 287 South 19th St. Est. $150,000. No Jan. 21.

N. Y., Astoria—Super-Homes, Inc., 825 Cro St., Brooklyn group 2 story, 22 x 48 ft., bri dwellings, 46th St. and 28th Ave., separate co tracts. $200,000. M. Rothstein, 186 Joralemon St., Brooklyn, archt.

N. Y., Brooklyn—Dime Savings Bank, 9 De Kalb Ave., 4 story, 80 x 100 ft. bank, to W Kennedy Constr. Co., 215 Montague St. Est $150,000. Contractor now taking bids on ex cavation, foundations, etc. Noted Jan. 28.

N. Y., Brooklyn—Corporation, c/o I. M. Kalt 26 Court St., 6 story, 85 x 100 ft. apartment East 5th St. and Ditmars Ave., separate con tracts. $150,000. Seelig & Finkelstein, 153 Pierrepont Ave., archts.

N. Y., Brooklyn—Eighty-Third Street Realty Corp., foot 24th St. and Avenue B, residential group, 2½ story, 25 x 60 ft. brick dwellings garages for same, 80th St. and Shore Rd., separate contracts. $150,000. Slee & Bryson, 16 Court St., archts.

N. Y., Brooklyn—Kishner & Kishner, 26 Court St., group 2 story, 20 x 68 ft. brick dwellings with garages for same, Highlawn Ave. and West 6th St., separate contracts. To exceed $150,000. Seelig & Finkelstein, 153 Pierrepont Ave., archts.

N. Y., Brooklyn—J. H. S. Realty Corp., J. Rosenberg, pres., 2907 Mermaid Ave., group 2 story, 20 x 67 ft. brick, 2 family dwellings, 64th St. and 24th Ave., separate contracts. $150,000. I. Kallich, 375 Fulton St., archt.

N. Y., New York—Todd, Robertson & Todd Engineering Corp., 347 Madison Ave., installing heat control system in RKO Building, Radio City, to C. A. Dunham Co., 450 East Ohio St. Chicago, Ill., for Metropolitan Square Corp., 60 Bway. Noted Mar. 19.

N. Y., Flushing—R. J. Rose, 190-05 Cocheron Ave., 3 story apartment, 37th Ave. and 191st St., separate contracts. $150,000. S. M. Palm, 36-20 168th St., archt.

N. Y., New York—Dpt. Parks, W. R. Herrick, pres. Park Dpt., Arsenal Bldg., Central Park, Metropolitan Museum of Art Branch, Fort Tryon Park to Marc Eidlitz, 100 East 42nd St. Est. $2,000,000. Contractor takes bids on separate contracts in July. Noted Feb. 18.

N. Y., New York—P. Aginsky, 2685 University Ave., 6 story, 95 x 100 ft. apartment, Davidson Ave., separate contracts. $190,000.

N. Y., Sag Harbor—Nunna Koma Development Co., Nunna Koma Park, residential and camp development, incl. 25 bungalows, club house, tennis courts, Nunna Koma Park, to W. Grassgreen, 40 East 49th St., New York. Est exceeds $150,000.

N. Y., Yonkers—R. C. Associates, 17 West 42nd St., New York, 15 acre residential development, separate contracts. $1,000,000. E. T. See, 299 Madison Ave., archt. Noted Mar. 3.

Pa., Phila.—F. G. Shattuck Co., lessee, 58 West 23rd St., New York ,will build restaurant, office, catering and candy store, 1216 Chestnut St., by general contract. $350,000. C. E. Birge, 29 West 34th St., New York, archt. Also plans construction or leasing additional buildings in eastern cities and will carry out extensive expansive program.

Tex., Longview—Bd. Educ., c/o Secretary, general contract Sennior High School, 3 story, brick, hollow tile, rein.-con., steel, to R. F. Ball Constr. Co., Electric Bldg. Annex, Fort Worth, $122,000; electric wiring, to Electric Constr. Co., 209 South Pearl St., Dallas, $4,635. Noted Feb. 18.

Ont., London—O. R. Moore, archt., 489 Richmond St., general contract, 4 story, basement, 75x180 ft., steel, concrete store, for T. F. Kingsmill, 218 Dundas St., to R. G. Wilson & Son, Huron and Erie Bldg.; heating, plumbing, ventilating, sprinkler system, to Bennett & Wright, 286 King St. Est. $150,000. Noted Mar. 3.

Ont., Ottawa—Knox Presbyterian Church, P. Christie, chn. Building Com., 50 Powell St., 1 story, brick, Nepean sand stone church, to A. I. Garvock, Regent Theatre Bldg., Sparks St., $275,000. Noted Aug. 13.

Industrial Buildings

PROPOSED WORK

Calif., Los Angeles—Los Angeles Bureau of Power & Water plans being completed, 150 x 200 ft., rein.-con. power plant suitable for 2 units designed to permit 3 additional units, Harbor site. To exceed $150,000. H. A. Van Norman, ch. engr. and mgr.

Colo., Colorado Springs—City retained Burns & McDonnell, consult. engrs., 402 Interstate Bldg., Kansas City, Mo., to prepare plans 5,000 kw. 80 per cent factor turbo-generator set and steam generating unit with auxiliary and appurtenances for steam power plant addition. $260,000. E. L. Mosley, city engr. Noted Feb. 4.

Conn., Danbury—Clear Ice Co., F. Hain, 52 Meadow St., South Norwalk, plans by H. Koerner, 83 Fairfield Ave., Bridgeport, 1 story, 45 x 150 ft. ice manufacturing plant, brick, steel. $50,000.

Conn., New Britain—Spring Brook Ice Service, H. E. Doerr, 17 Spring St., ice manufacturing plant, Spring St. $45,000. Private plans.

Ga., Moultrie—Colquitt County Tobacco Warehouse, W. C. Vereen, banker pres., Moultrie, soon lets contract tobacco warehouse, 54,000 sq.ft. floor space.

Ind., Ft. Wayne — P. EcKrich, Kalamazoo, Mich., plans by L. A. Kingscott, 204 Elm St., Kalamazoo, Mich., 1 story, basement, 150 x 200 ft., rein.-con., brick factory. $40,000.

Ky., Paris — City power plant. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Mass., Boston—Quincy Market Cold Storage & Warehouse Co., 8 T Wharf, preparing plans altering and constructing 1 story, boiler house addition and extensions. $40,000. Foundation awarded to Aberthaw Co., 80 Federal St.

Mass., Brookline—Town, Bd. Selectmen, heating and lighting plant addition, 46 Toppan St. $40,000.

Mass., Hopedale—Hopedale Coal & Ice Co., W. H. Barney, in charge, ice manufacturing plant. $50,000. Private plans.

Mass., Pittsfield—Pittsfield Auto Body Wks., 14 Gordon St., 2 story, brick, steel repair shop. $45,000. Private plans.

Mass., Lawrence—Essem Packing Co., Inc., 101 Beacon St., revising plans altering 2 story, sausage factory, concrete. $40,000. Former bids rejected. Worcester Tram Rail Co., Inc., 10 T Wharf, Boston, engrs. Noted Feb. 25.

Mass., South Boston (sta. Boston)—Boston Wharf Co., 259 Summer St., Boston, plans by H. B. Prescott, 259 Summer St., Boston, rebuilding brick, concrete warehouse, 536 Congress St. $40,000 or more.

Mo., Farmington — Farmington Chamber of Commerce, Farmington, and Rice Stix Dry Goods Co., 10th and Washington Aves., St. Louis, soon take bids 2 story, part basement, 100 x 135 ft. shirt factory, rein.-con., brick, steel. $50,000. J. Boehmer, c/o Rice Stix Dry Goods Co., 10th and Washington Sts., St. Louis, engr.

Mo., Kansas City—Pennzoil Co., lessee, Davidson Bldg., plans by Smith, Rea & Lovitt, Finance Bldg., distribution and bulk oil storage, 28th St. and Southwest Blvd. To exceed $40,000.

Mo., Keokuk—Kane, Dunham & Kraus, Inc., 1709 Locust St., St. Louis, sketches shoe factory, concrete, brick. $40,000.

Mo., Washington—Burns & McDonnell Eng. Co., 406-08 Interstate Bldg., Kansas City, Mo., has been retained to make appraisal and survey to determine whether it would pay to construct municipal plant or possibly get a cheaper rate from Union Co. City is under franchise with Union Electric Light & Power Co. Noted Mar. 17.

N. J., Eatontown—W. Champlin, 6 Hunt St., Rumson, altering and constructing 1 story, basement, brick, steel repair shop and garage addition. $40,000. **Maturity soon.** Property purchased.

N. J., Newark—Alling Corp., 33 Ward St., plans by W. E. Lehman, 972 Broad St., 1 story, basement, brick, steel garage, 36-42 Columbus St. $40,000.

N. J., Newark—Owner, c/o P. C. Reilly, archt., 111 5th Ave., New York, preparing plans 2 story, basement, brick, steel laundry and power house. $40,000. **Maturity late in April.**

N. J., Newark—Stadler Eng. Co., archts., 140 Liberty St., New York, bids after Mar. 28, general contract 1 story, basement, brick, steel beef cooler, Astor St., for L. Schloss, Inc., foot Astor St. $40,000. Former job abandoned. Noted Aug. 20, under "Contracts Awarded."

N. J., Paterson—J. C. Van Vlandren, archt., 140 Market St., rejected bids 2 and 3 story, brick, steel dye plant, Sherman Ave. Project abandoned. Noted Jan. 28.

N. Y., Brooklyn—Daylight Wet Wash Laundry, Inc., C. DeAngelo, pres., 1321 61st St., plans by Lama & Proskauer, 385 Jay St., 1 story, 40 x 100 ft., brick laundry, 61st St. and East 13th Ave.

N. Y., Buffalo—Rugby Knitting Mills, Inc., 77 Pearl St., soon lets contract altering Burrell Bldg., and equipping same for knitting mills.

N. Y., Brooklyn—J. J. O'Brien, 233 Bway., New York, plans by C. A. Pierce, 419 4th Ave., New York, 2 story, 78 x 109 ft. storage and stores, Church and Coney Island Aves. $75,000.

N. Y., Brooklyn—One Thousand Five Hundred Twenty Pitkin Ave. Holding Corp., 905 Linden Ave., plans by M. Rothstein, 186 Joralemon St., 2 story, 38 x 84 ft. storage and stores, Saratoga and Pitkin Aves. $40,000.

N. Y., Flushing—G. DiGerolamo, 13 West Bradford Ave., sketches by P. L. Kieswetter, c/o owner, 100 x 125 ft. service garage, 41st Ave. and James St

N. Y., Jamaica—Queens County Service Station, 182nd St. and Hillside Ave., sketches by A. Goldberg, 164 Montague St., Brooklyn, 1 story, 42 x 84 ft., brick service, repair testing and lubrication station addition, 182nd St. and Hillside Ave.

N. Y., New York—Carlonesto Realty Corp., 391 East 149th St., sketches by M. W. Del Gaudio, 545 5th Ave., 1 story, 65 x 130 ft. service garage, Jerome Ave. and Kingsbridge Rd.

N. Y., New York—Consolidated Gas Co., 4 Irving Pl., plans by J. F. Hunter, c/o owner, altering shop and storage, 120 Amsterdam Ave.

N. Y., New York—F. Kannen, lessee, 700 11th Ave., demolition present buildings and erecting service garage, incl. gasoline, servicing and repair facilities Canal and Houston Sts. To exceed $40,000.

N. Y., New York—Six and Eight West 48th Street Corp., 316 East 64th St., plans by H. A. Wittekind, c/o owner, altering 12 story factory and storage building, 6-8 West 48th St. $40,000.

N. Y., Richmond Hill—W. E. Goetter, 9825 Jamaica Ave., sketches by H. H. Holler, c/o owner, altering 2 story, 112 x 311 ft. garage and shop, Jamaica and 87th Aves.

N. Y., St. Albans—F. Vitale, 7035-69 Glendale Ave., plans by A. P. Sorice, Jr., St. Albans, 2 story, 25 x 100 ft. bakery, Foch Blvd. and 220th St.

O., Cleveland—Cleveland Wax Paper Co., 13831 Triskett Rd. N.W., paper plant addition. $40,000 incl. equipment.

Okla., Picher—Mid-West Electric Co., Omaha, Neb., rebuilding concrete, brick plant destroyed by fire, East 2nd St. $40,000.

Pa., Easton — Northampton Motor Sales Co. soon lets contract auto service, garage, sales rooms, also 4 story apartment. To exceed $100,000. Ballinger Eng. Co., 105 South 12th St., Phila., archts.

Pa., Plymouth—Glen Alden Coal Co., dismantling Pettebone Colliery Steam Plant, erecting same at Lance Colliery, to A. J. Sordini, Owen St., Forty Fort. Est. $100,000.

R. I., Providence—Rhode Island Supply Co., 755 Westminster St., warehouse, Westminster St. $50,000. Architect not appointed.

Va., Richmond—City plans 77 x 240 ft. corrugated metal and steel warehouse at city wharf. $125,000. **Maturity early in April.**

Wash., Vancouver—City, Lighting Com., A. J. Collins, chn., new lighting plant, probably diesel engine.

Wis., Marshfield—S. J. Miller, 101 North Vine St., sketches rein.-con., brick, cold storage warehouse and equipment. $40,000. Private plans. Noted Feb. 4.

Alta., Raymond—British Columbia Sugar Refining Co., Ltd., Fort Rogers, Vancouver, B. C., beet sugar factory addition. $250,000. **Maturity indefinite.**

N. S., Port Williams—Port William Fruit Co., warehouse and evaporator. $40,000.

Ont., Thorold—McColl-Frontenac Oil Co., 114 Don Esplanade, Toronto, 3½ (Imperial) m.g. gasoline and oil storage plant, incl. warehouse, garage, on Thorold-Allanburg Hy. $65,000. Private plans.

Que., Montreal—Lighting Appliance, Inc., 9 Desbrosses St., New York, constructing Canadian manufacturing plant incl. equipment. To exceed $40,000.

Que., Montreal—Standard Wall Paper of New York, Hudson Falls, N. Y., plant.

Que., Montreal—City Executive approved construction of garage, Champ De Mars. $1,000,000. Actual construction depends on whether the Provincial and Dominion Governments will regard same as a relief measure.

Que., Three Rivers—Canada Iron Foundries Ltd., 28 Victoria St., water pipe valve manufacturing plant. $100,000. Private plans.

BIDS ASKED

Ill., Whitehall—City, c/o City Clerk, bids about Apr. 22, brick, concrete municipal light and power plant, incl. Diesel engine, generator, exciter, switchboard, transformers, pole line distribution system.

Ind., Hammond—Stone & Webster Eng. Corp., contractors, 49 Federal St., Botson, Mass., taking bids all contracts 4 story, basement, brick, steel, rein.-con., stone factory, for Lever Bros., Hammond. $500,000. Noted Jan. 11 under "Contracts Awarded."

Mass., Boston—Apr. 6, by City, Hospital Dpt., altering 1 story, brick, steel power house at City Hospital, Harrison Ave. $100,000. J. H. Ritchie & Associates, 250 Stuart St., archts. Noted Feb. 4.

Mass., Quincy—Mar. 31, by Standard Oil Co. of New York, Bway., New York and Park Sq. Bldg., Boston, brick, timber, concrete, garage, office building, docks, tanks, between Town River and Washington St. $1,000,000. R. H. Morse, c/o Standard Oil Co., of N. Y., Park Sq. Bldg., Boston and Bway., New York, engr. Noted Dec. 10, under "Offices."

N. Y., Brooklyn—General Linen Supply, 235 Myrtle Ave., bids about Apr. 11, general contract 4 story laundry, Stockton and Marcy Sts. $175,000. M. Marlo, 200 Beverly Rd., archt. Noted Feb. 18.

N. Y., Marcy—Apr. 6, by Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, garage, propagating house, piggery and service connections (tunnels) Marcy State Hospital.

O., Oberlin — Oberlin College, c/o F. M. Criutsinger, supt. construction, taking bids 1 story, brick, steel, concrete, central heating plant. $325,000. John Paul Jones, Cary & Miller, Inc., Terminal Tower, Cleveland, engrs. and archts. Noted Dec. 3 under "Schools."

Pa., Brockway—R. G. Howard, archt., Dept. Natl. Bank Bldg., DuBois, taking bids 1 story, basement, 35 x 100 ft., brick, steel office building, for Brockway Machine Bottle Co.

Pa., Edgley—Haenichen Eng. Co., archts. and engrs., 222 West Bway., Paterson, N. J., taking preliminary general contract bids (from selected list of contractors) 2 story, basement, 90 x 200 ft., rein.-con brick, steel paper plant addition, Slate Rd. to Delaware River for Paterson Parchment Paper Co., 33 8th St., Paterson, N. J. $40,000 or more. Noted Mar. 3.

R. I., Providence—H. Katz, 276 North Main St., taking bids 2 story, basement, brick, steel manufacturing shop and 2 stories, plain found., North Main St. $50,000. Barker & Turoff, 10 Weybosset St., archts.

CONTRACTS AWARDED

Calif., Marysville—Marysville Ice & Cold Storage Co., 1,200 ton storage plant, rein.-con. 9th St., to W. W. Williamsen, 320 Market St., San Francisco.

Ill., Peoria—Shipper & Block, 124 South Adams St., 1 story market building, service station, 20 x 40 ft. parking lot, Washington St., to V. Jobst & Son, Lehman Bldg. Est. $60,000.

Ind., Kokomo—Lincoln Oil Co., general contract brick, steel, super-service station, Washington St. and Boulevard Ave., to W. A. Underwood, Kokomo. Est. $40,000.

Me., Portland—W. H. Shurtleff, 2½ Union Wharf, rebuilding 3 story, brick warehouse, to Brown Constr. Co., 474 Congress St. Est. $40,000.

N. Y., Brooklyn—Ferndale Farms, 219 Liberty Ave., service garage, storage building platform, Snediker and Liberty Aves., to J. H. Klein, c/o owner. Noted Mar. 17.

Mass., Northampton—Clarke School for Deaf, M. Leonard, Round Hill Rd., boys' and girls' work shop buildings, Round Hill Rd., to E. J. Pinney, Inc., 220 Dwight St., Springfield. Est. $40,000 or more. Noted Mar. 3.

N. J., Croyden—Paterson Parchment Paper Co., Edgely, Pa., 2 story, 250 x 270 ft. brick, steel factory addition, to F. G. Pettit Constr. Co., Paterson, $200,000.

N. J., Newark—Pub. Serv. Electric & Gas Co., 80 Park Pl., general contract rebuilding 2 story, basement electric sub-station, brick, steel, 1227 Broad St., to United Engineers & Constructors, Inc., 80 Park Pl. Est. $40,000.

N. J., Perth Amboy—Ballinger & Co., archts., 12th and Chestnut Sts., Phila., Pa., general contract 1 story, 165 x 260 x 460 ft., brick, steel, rein.-con. grocery warehouse, Fayette St., to B. Goldstab & Sons, 62 Catalpa St., for Greenspoon Bros., 226 Washington St. Est. $300,000. Noted Oct. 15.

N. Y., New York—Denison Realty Corp., 225 Bway., altering 2 story storage, 133 West 33rd St., to G. Richard Davis & Co., 12 East 41st St.

N. Y., New York—Emaron Realty Corp., c/o M. W. Del Gaudio, archt., 545 5th Ave., 5 story garage, on 50 x 180 ft. site, 17-19 Leroy St. and 18-20 Morton St., to G. M. W. Constr. Co., 55 West 42nd St. Est. $150,000.

N. C., Greensboro—Swift & Co., Packers and Exchange Aves., Chicago, Ill., 2 packing plants, to J. N. Bryan & Son, Rogers Bldg., Raleigh. Est. $50,000.

Pa., Pittsburgh—Ingham & Boyd, archts., Empire Bldg., general contract incl. electric wiring, 2 story, basement, 62 x 86 ft., brick, limestone store, two 1 story, 80 x 124 ft., brick, concrete, limestone garage buildings, to W. F. Trimble & Son, 1719 Pennsylvania Ave.; heating, to McGinness, Smith & McGinness, 527 1st Ave., Pittsburgh, for Buhl Foundation, Farmers Bank Bldg., C. E. Lewis, dir.

Tenn., Philadelphia — Philadelphia Hosiery Mills, 2 story mill addition, to F. S. Robinson, London, Tenn., and at job.

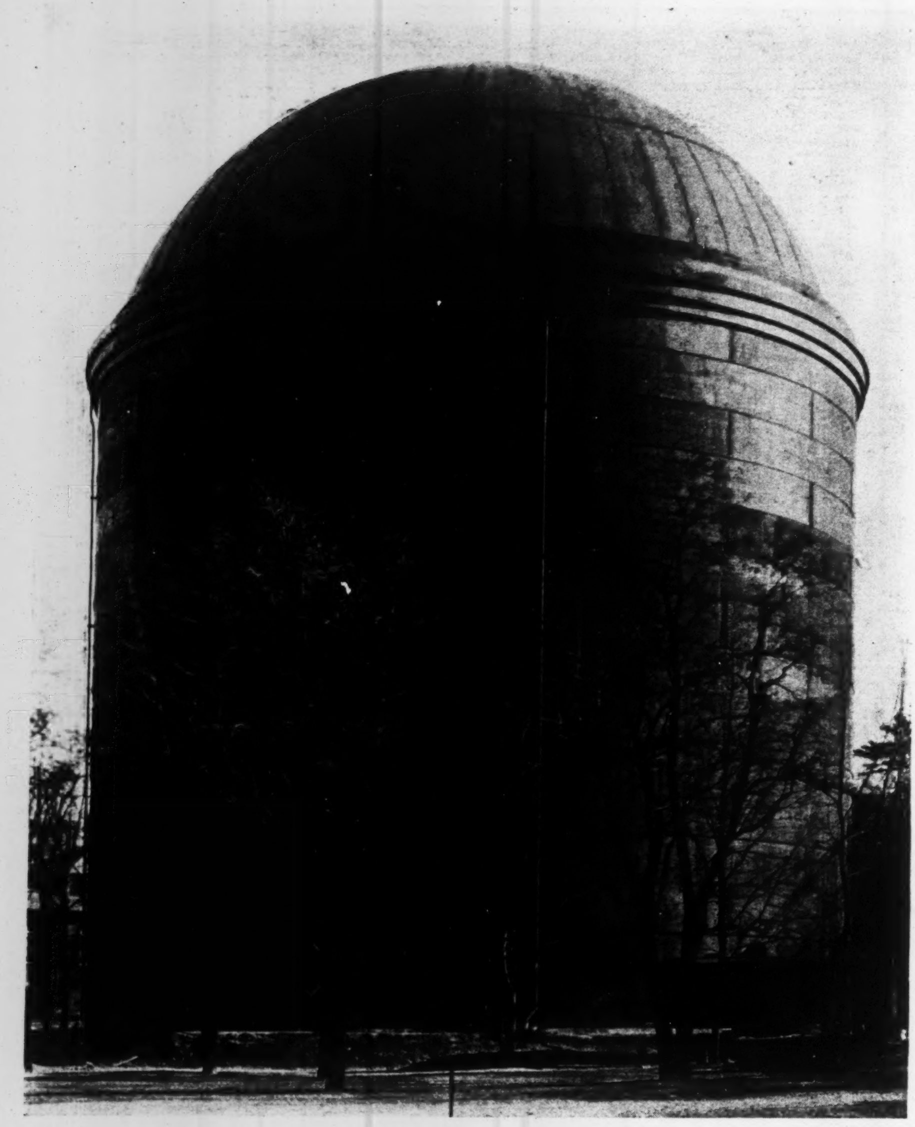
Tex., Marlin—Marlin Ice & Cold Storage Co., Marlin, 1 story, 47 x 70 ft. ice plant, brick, concrete, steel, concrete found., to F. Petzold, Marlin. Noted Mar. 17.

Tex., San Angelo—Banner Creamery Co., c/o O. D. Dillingham, Abilene, 1 and 2 story, 58 x 151 ft., hollow tile and stucco creamery plant, to H. L. McBride, 509 Koberlin St. Owner purchasing equipment now.

Wis., Manitowoc—Manitowoc Co. general contract 1 story, basement 70x300 ft., brick, rein.-con. repair shop and storage building, to J. C. Bosten, Green Bay, $35,284; heating, to H. G. Kallies, Manitowoc, $3,500; plumbing, to Levendusky & Thiessen, Manitowoc, $1,148; electrical work, to Anderson Electric Co., Manitowoc, $475. Grand total $40,407. Noted Jan. 7.

Wyo., Casper—Midwest Refining Co., Casper, electrifying Midwest and Standard Refineries, to Stearns-Rogers Mfg. Co., 1720 California St., Denver, Colo., $150,000.

See proposal advertising on page 53



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By reason of long experience in fabricating and erecting all types of standpipes, a force of skilled workmen, and unmatched facilities, McClintic-Marshall is exceptionally well qualified to build standpipes to meet the requirements of Municipal Water Systems. McClintic-Marshall Standpipes can be constructed for any capacity and to meet any conditions.

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CONSTRUCTION NEWS

SECTION OF ENGINEERING NEWS-RECORD—MARCH 31, 1932

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WATERWORKS

PROPOSED WORK

Del., Dover—See "Sewers."

Mass., Belmont—Town, Bd. Selectmen, water improvements and maintenance. $122,800 appropriated.

Mass., Framingham — Town, Bd. Selectmen, waterworks. $129,000 appropriated.

Mass., Medfield — Commonwealth of Massachusetts, preparing plans pump house and standpipe at State Hospital. Part of $200,000 waterworks supply system. J. J. Van Valkenburgh, Irving Sq., Framingham, engrs. Noted June 4.

Mass., Needham—Town, Bd. Selectmen, waterworks extensions. $55,000 appropriated.

Mass., Winthrop — Town, Bd. Selectmen, waterworks improvements, extension and maintenance. $101,973 appropriated.

N. Y., Broctish—Plans connection from Bear Lake to present reservoir intake, chlorinator, 5,500 ft. 12 in. pipe. $15,000. G. C. Diehl, Inc., Ellicott Sq., Buffalo, engrs.

N. Y., Farnham—City, 20,000 ft. 6-8 in. mains, hydrants, valves, 125,000 gal. elevated steel tank. $40,000 bonds voted. G. C. Diehl, Inc., Ellicott Sq., Buffalo, engr.

N. Y., Sherman—Plans wells for additional water supply. $15,000. G. C. Diehl, Inc., Ellicott Sq., Buffalo, engrs. Noted Mar. 24.

S. D., Sioux Falls—City, W. C. Leyse, aud., furnishing materials, installing 14 blocks 6 in. c.i. watermain.

Utah, Castledale—Town, purchasing and installing chlorinating equipment for water supply.

Utah, Provo—City plans chlorinating equipment for water system. F. Deming, city engr. authorized to investigate cost and report back.

Ont., West Lorne—Ratepayers carried by-law for new waterworks. $55,000. C. R. Hagey, engr., Riverview Bldg., Fort Erie, to prepare plans. Prices will be wanted on everything.

Que., St. Cesaire—R. Dussault, village secy., soon takes bids water distribution system. F. Ruel, 757 Place d'Armes, Montreal, engr.

BIDS ASKED

Ia., Perry—City Clerk and Howard R. Green Co., consult. engrs., 208 Bever Bldg., Cedar Rapids, bids about Apr. 28, addition of iron removal and softening equipment to waterworks system, 1 m.g.p.d. capacity, excess lime and recarbonation system will be used. $30,000. Noted Feb. 4.

Minn., Willmar—Apr. 5, by State Comn. Administration & Finance, Capitol, St. Paul, furnishing, installing 1 deep well, centrifugal pump and piping, erecting pump house at Willmar State Asylum. G. M. Orr & Co., 408 Baker Bldg., Minneapolis, engrs.

Neb., Omaha—Metropolitan Utilities Dist., 18th and Harney Sts., opens bids about Apr. 11, water purification plant addition. $220,000. J. Detweiler, supt.

Neb., Schuyler—City, c/o G. McKenzie, clk., taking bids well in connection with exhaust water line for power and light plant.

S. D., Vermilion—Apr. 11, by City Council, 220,000 gal. steel reservoir, incl. 380 ft. 8 in. c.i. piping with valves, connections. R. V. Newcomb, city engr. Noted Feb. 25.

CONTRACTS AWARDED

Calif., Los Angeles—See "Dams."

Mass., Newton—Metropolitan Dist. Comn., Water Div., 20 Somerset St., furnishing, laying 9,200 ft. 60 in. steel water pipe, for Commonwealth of Massachusetts, to Coleman Bros., Inc., 245 State St., Boston, $123,151. Noted Mar. 3.

Mass., Palmer—Dpt. Mental Diseases, Room 109E, State House, Boston, water purification plant at Monson State Hospital, to D. A. Sullivan & Sons, Inc., 78 Main St., Northampton, $6,671; piping, to Hungerford & Terry, Inc., 53 State St., Boston, $12,570; coverting heating system, to R. H. Baker, Inc., 145 Bway., Boston, $6,912. Grand total $26,153. Noted Mar. 17.

N. Y., Long Island City—J. J. Dietz, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in 20th Ave., Doncaster Pl., 15th Dr., Grand Central Parkway, Woodhaven and Springfield Blvds., to Ozone Park Water Pipe Co., Ozone Park, $9,496. Noted Jan. 21.

O., Cincinnati—Cincinnati Union Terminal Co., H. M. White, ch. engr., Temple Bar Bldg., 35 in. c.i. watermain across Western Hills Viaduct, to Bickelhaupt, Inc., Amer. Natl. Bank Bldg., Richmond, Va., $48,000.

O., East Cleveland — City, 1 m.g. steel plate water tank, to Youngstown Boiler & Tank Co., Andrew and Oak Sts., Youngstown, fabrication $7,940, erection $5,681. Noted Feb. 18.

Pa., Lewisburg—State of Pennsylvania, Harrisburg, water supply and sewerage system, incl. 8 in. main, 1 m.g. storage tank, 100,000 gal. elevated tank with adequate sewer lines and disposal plant, to Suburban Eng. Co., 15 West 38th St., New York, $42,596. Est. $90,000.

Va., Lynchburg—City, c/o R. W. B. Hart, mgr., erecting 500,000 gal. tank for water department in Rivermont section, to Pittsburgh-Des Moines Steel Co., Neville Island, Pittsburgh, Pa.; city will erect necessary foundations by day labor. Est. $36,000.

Tex., Austin—City, c/o H. McKeller, secy., waterworks, incl. 1 story 25 x 50 ft. brick, rein.-con. building, etc., structural and reinforcing steel, to Heierman & Tips, Inc., Austin; smoke stack to Houston Structural Steel Co., 3910 Washington St., Houston; two 1,000 hp. 450 lb. pressure boilers, to Babcock & Wilcox, 85 Liberty St., New York; plumbing, electric wiring, roofing, by day labor. United Engineers & Constructors, Inc., 112 North Broad St., Phila., Pa., archts. and contractors. Total est., incl. equipment and machinery $314,000. Common brick not awarded. Work started. S. E. Bell, Austin, supt. construction.

Wis., Cedar Grove—See "Sewers."

Alta., Calgary—City, filtration plant contract, water wheels, pumping electrical equipment, to Canadian Allis-Chalmers, 212 King St. W., Toronto, Ont., $76,245; stop gates, bar screens, to Dominion Bridge Co., Reford Bldg., Toronto, Ont., $40,000; clarifier tanks, to Foster Co., 8th Ave. W., $20,000. Grand total $136,245. Noted Jan. 21.

Ont., Oakville—Toronto Twp., 2½ mi. 6 and 8 in. c.i. mains along Lakeshore Rd. Dist., incl. 10,000 ft. 8 in. and 2,600 ft. 6 in. c.i. pipe, to Gartshore-Thomson Pipe & Fdry. Co., Stuart St. W., Hamilton, $11,861; hydrants and valves, to Drummond McCall Co., 373 Front St. E., Toronto, $1,179 and $1,333 respectively; special castings, to T. Tomlinson Fdry. Co., 60 Esplanade, Toronto, $652. Grand total $15,025. All work proceeding by day labor under owner's supervision. Gore, Nasmith & Storrie, engrs., 1130 Bay St., Toronto.

Ont., St. Catharines—Niagara Twp., 8,600 ft. 6 in. c.i. watermain, to A. Collins, 981 Jepson St., Niagara Falls. Est. $15,000.

SEWERS

PROPOSED WORK

Del., Dover—R. C. Beckett, state sanitary engr., after making survey at Dover, submitted report to L. D. Shank, city mgr. and A. C. Jost, executive secy. of State Bd. Health, to extend sewerage system, incl. sewage treatment, garbage disposal, incineration, extending existing city sewer lines, privy sanitation, water supply and other allied projects. $120,395.

N. Y., Northport—Village voted additional appropriation of $35,000 for completing sewerage system. $125,000 had been authorized previously making total of $160,000 to date. **Maturity indefinite.** M. Vrooman, Gloversville, engr.

Wis., Cedar Grove—Village, making plans trickling filters, primary settling basin, dosing tank, and sludge drying beds. **Maturity about May or June.** Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, Ill., engrs. Noted Mar. 10.

Wis., South Milwaukee—City filter plant addition. $80,000. Alvord, Burdick & Howson, 20 North Wacker Dr., Chicago, Ill., engrs. **Maturity in 1933.**

BIDS ASKED

N. Y., Brooklyn—Apr. 6, by H. Hesterberg, pres. Brooklyn Boro Hall, sewers in Avenue U, Schenectady and Caton Aves., East 27th, East 1st, East 56th and East 26th Sts.

N. Y., Syracuse—City, W. W. Cronin, ch. deputy city engr., taking bids materials for Burnet Ave. Relief Sewer. Work will be done by unemployed labor under engineer's supervision.

N. Y., White Plains—May 6, by Westchester Co. Sanitary Sewer Comn., Court House, 2,500 ft. 42 and 48 in. rein.-con. sewer and crossing under New York, New Haven & Hartford R.R. tracks, near Larchmont Gardens, for Sect. O-2, Mamaroneck Project located in Mamaroneck. $25,000. W. W. Young, Court House, co. engr.

Pa., Pittsburgh—See "Bridges."

CONTRACTS AWARDED

Md., Baltimore—Bd. Awards, sanitary sewers, storm water drains, in Sewer Dists. P-9, P-10 and P-11, Storm Water Contr. 165, incl. 3,500 lin.ft. 24 and 60 in. rein.-con. pipe drain, 6,925 lin.ft. 12- to 21-in. vitr. pipe drain, 2,675 lin.ft. 8 and 10 in. vitr. pipe sewer; 1,475 lin.ft. 5 and 6 in. house connections, 4,800 lin.ft. 4 and 6 in. underdrains, to W. H. Thompson, Relay. $30,601.

N. J., West New York—Bd. Freeholders Hudson Co., Court House, Jersey City, extending c.i. drain from Hillside Rd. and Hudson River Turnpike through property of Ontario & Western R.R. Co. to Hudson River, to Municipal Constr. Co., 26 Veterans Sq., Jersey City. Est. $25,000.

N. Y., Wallkill—Dpt. Correction, State Office Bldg., Albany, sewage disposal system at Medium Security Prison, to Gerli Constr. Co., 303 5th Ave., New York, $31,968. Noted Feb. 11.

Pa., Lewisburg—See "Waterworks."

Wis., Cedar Grove — Village, sewers and waterworks system to Bahr Constr. Co., Manitowoc, $18,400; concrete reservoir, to P. Malson, Fond du Lac, $4,010. Noted Mar. 10.

Ont., Hamilton—City, W. L. McFaul, engr., City Hall, 8 in. and up vitr. tile storm sanitary sewers in sections Brucedale St. $4,743, East 12th St. $7,967, East 13th St. $15,613, East 14th St. $3,907, East 15th St. $16,276, Mountville Ave. $31,757, Salem Ave. $8,095. Most of work to be done by day labor.

Ont., Mimico — Towns of Mimico and New Toronto, activated sludge sewage disposal plant addition, aeration and settling tanks, to Lowes Constr. Co., Mimico, $32,980; compression house, valve chamber and digestion tank, to Herod Constr. Co., Mimico, $27,900; outfall sewer into Lake Ontario, to R. C. Huffman Constr. Co., 330 Bay St., Toronto, $24,300. Grand total $85,180. Noted Nov. 26.

BRIDGES

PROPOSED WORK

Mass., Belmont — Town, Bd. Selectmen, bridges, hys. $105,000 appropriated.

Mass., Needham — Town, Bd. Selectmen, bridges, hy. and new roads. $75,600 appropriated.

Mass., Reading — Town, Bd. Selectmen, bridges, hys. $45,300 appropriated.

Mass., Wellesley — Town, Bd. Selectmen, bridges, hys. $139,000 appropriated.

Mass., Winchester — Town, Bd. Selectmen, bridges, hys. $115,700 appropriated.

Mass., Winthrop — Town, Bd. Selectmen, bridges, new roads and hys. $29,400 appropriated.

N. Y., Tonawanda—City soon takes bids bridge over Ellicott Creek. B. Hinkey, city engr.

Texas—State Hy. Comn., W. R. Ely, chn., Austin, soon takes bids steel, concrete bridge over Llano River, Hy. 27, Kimble Co., G. G. Wickline, Austin, bridge engr.

Wis., Milwaukee—Bd. Supervs. Milwaukee Co. plans expending $583,000 during 1932 and probably take bids in May, improving roads and bridges. W. F. Cavanaugh, Milwaukee, co. engr.

BIDS ASKED

California—Apr. 6 (extended date), by State Hy. Comn., Sacramento, one 30 ft. and one 20 ft. and 10 in. span rein.-con. bridge on concrete bents and abutments with wing walls over Stevens Creek 2 mi. north of Mountain View, Santa Clara Co. C. H. Purcell, hy. engr. Noted Mar. 10.

Florida—Apr. 4, by State Road Dpt., Tallahassee, 11 standard concrete box culverts, four 2 span bridges, one 3 span bridge of 25 ft. steel I-beam spans, concrete deck on creosoted timber piling. Project 805, Rd. 25, Hendry Co.; five 43 ft. concrete deck girder spans on concrete piers. Project 977-B, Rd. 32, Hardee Co. B. M. Duncan, Tallahassee, state hy. engr.

Constr. News page 99

See proposal advertising on page 60

LEADITE

Trade Mark Registered U.S. Pat. Office

A 36" Bell & Spigot Sewer Line, along River Bank - - - - - Jointed with LEADITE

This is but one of the many difficult bell and spigot pipe line installations in which LEADITE has been successfully used as a jointing material.

As a great many Water Works Engineers and Superintendents know, LEADITE has given an excellent account of itself for more than a quarter century on many bell and spigot water line installations, many of which were difficult.

LEADITE is the most often specified,—most frequently discussed, — and most widely used self-caulking material for jointing bell and spigot water lines, — In fact, thousands of miles of water lines have been jointed with LEADITE, because LEADITE not only makes a good, tight joint—but it is "dependable" and always uniform in QUALITY.

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No Caulking

Bridges **(Continued)**

Ia., Dubuque—See "Streets and Roads."

Md., Baltimore—Apr. 6, by Bd. Awards, concrete bridges, Kidd's School and Mt. Carmel Rds., **Frog Hollow Bridge and Miller's Run Culvert. G. Cobb, Municipal Bldg., hys. engr.**

Mississippi—See "Streets and Roads."

Missouri—Apr. 7, by State Hy. Bd., Jefferson City, bridges in Adair, Cedar, Cooper, Dent, Grundy, Howell, Lewis, Mercer, Moniteau, Ozark, Ray, Ralls, St. Clair, Stoddard Counties. T. H. Cutler, ch. engr.

Neb., Central City—Apr. 7, by State Dpt. P. Wks., and Bd. Supervs. Merrick and Hamilton Counties, 840 ft. multiple span deck steel girder bridge, 20 ft. roadway, concrete flooring, pipe handrail, open steel pile piers, steel pile encased abutments, approach fills and protection work. R. L. Cochran, State House, Lincoln, hy. engr.

Neb., Hebron—Apr. 8, by Bd. Supervs. Thayer Co., J. C. Strain, clk., constructing and improving bridges during 1932.

Neb., Schuyler—Apr. 4, by J. E. Severyn, clk. Colfax Co., steel, concrete and wooden bridges, repairing present bridges required by county during 1932.

Neb., West Point—Apr. 5, by Bd. Superv. Cuming Co., K. J. Kollmorgen, clk., building and constructing wooden bridges during 1932, incl. driving piling, placing caps, backing, complete superstructure, painting handrail, excav., repair work does not include furnishing materials, hauling same or placing wings.

N. Y., Long Beach—Apr. 5, by Bd. Supervs. Nassau Co., Mineola, repairing Tory Beach Bridge, $46,213. F. E. Starks, Mineola, co. engr.

N. Y., Mineola—See "Streets and Roads."

Pa., Pittsburgh—Apr. 7, by R. G. Woodside, city controller, City-County Bldg., improving Schenley Park Bridge, incl. removing existing pavement, sidewalk, fence, steel work, trough floor, constructing new sidewalks and roadway on bridge and approaches, incl. 5,000 lb. steel, $72,000; also grading, curbing, vitr. brick on concrete paving Laxton St. from Upland to Lyric Sts. $7,000; constructing 6- to 12-in. terra cotta sewers in McGonagle Ave., Banksville Avenue Dist. $6,400; plumbing work and installing chlorinators in Sheridan, Ormsby, Leslie Park and Troy Hill Swimming Pools, $10,700. C. M. Reppert, City-County Bldg., engr.

Texas—Apr. 4, by G. Gilchrist, state hy. engr., Austin, 36 span steel, concrete bridge, Hy. 9, Federal Aid Project 631-B, Kendall Co., $120,000; 7 span steel, concrete deck girder bridge, Hy. 3, Federal Aid Project 289 reopened, Uvalde Co., $40,000—4 span, 253 ft. rein.-con. bridge, Croton Creek, Hy. 4, State Aid Project 854-E, King Co., $25,000. Noted Mar. 24.

Vermont—Apr. 8, by State Hy. Dpt., Montpelier, 3 span, T-beam concrete bridge with gravel approaches, Federal Aid Project 100-E, Chester—2 T-beam bridges with gravel approaches, Federal Air Project 119-B, Eden Mills—one 8 x 10 ft. box culvert, one 15 ft. slab and one 3 span concrete T-beam bridges, Federal Aid Project 80-M, Randolph.

CONTRACTS AWARDED

Ga., Atlanta—Replacing 90 ft. concrete viaduct, Whitehall St., to Flagler Co., Red Rock Bldg., $30,482. Est. $30,000. Noted Dec. 17.

Indiana—State Hy. Comm., Indianapolis, 96 ft. steel truss bridge, Rd. 46 Contr. 480, and rein.-con. girder and rein.-con. slab bridges, Contr. 479, both Clay Co., to Foulks Constr. Co., Terre Haute, $12,964 and $20,226 respectively est. $18,927 and $20,226 respectively—rein.-con. arch bridge and rein.-con. girder bridge, Rd. 46, Contr. 478, Clay Co., to H. Exline, Sullivan, $13,428 est $20,734—2 steel truss bridges Rd. 50, Contr. 482, Lawrence Co., to Vincennes Bridge Co., Vincennes, $17,982. Est. $24,967. Grand total $64,600. Noted Mar. 10.

Ia., Knoxville—See "Streets and Roads."

Kentucky—See "Streets and Roads."

Ky., Ashland—See "Grade Crossings."

Massachusetts—Norfolk and Plymouth Counties, at office Fay, Spofford & Thorndike, engrs., 44 School St., Boston, reconstructing rein.-con. steel span deck girder bridge over Weymouth Back River, between Weymouth and Hingham, to Coleman Bros., Inc., 245 State St., Boston. Est. $25,000. Noted Mar. 17.

Oklahoma—See "Streets and Roads."

Pennsylvania — State Hy. Dpt., Harrisburg, one 310½ ft., one 93½ ft. and one 83 ft. span steel truss bridge, 22 ft. roadway, two 5 ft. sidewalks, Route 188, Vandergrift Boro, Armstrong and Westmoreland Counties, to Highway Constr. Co., Builders Exch. Bldg., Cleveland, O., $172,837—single span 219 ft. steel through truss bridge, 20 ft. roadway, two 5 ft. sidewalks, Route 82, at Meadville, Crawford Co., to Harrison Constr. Co., 2101 Sidney St., Pittsburgh, $36,604—three 65 ft. span rein.-con. spandrel filled arch bridge, 30 ft. roadway over Neshaming Creek, incl. 1,340 lin.ft. bituminous treated macadam paving Route 326, Northampton Twp., Bucks Co., to G. A. and F. M. Wagman, Dallastown, $47,063. Grand total $256,504. Noted Feb. 18 under "Streets and Roads."

Tennessee—State Dpt. Hys. & P. Wks., Nashville, bridge over Harpeth River on Hy. 49 between Ashland City and Charlotte, Cheatham and Dickson Counties, to E. A. Wood & Co., Cotton States Bldg., Nashville, $90,629; bridge over Elk River between Fayetteville and Franklin Co. line, Lincoln Co., to Hagen Constr. Co., Fayetteville, $55,683.

Wash., Seattle—See "Streets and Roads."

STREETS AND ROADS

BIDS ASKED

California—Apr. 6, by C. H. Whitmore, dist. engr., 502 State Office Bldg., Sacramento, treating with asphaltic road oil and heavy fuel oil as dust palliative 40.9 mi. road between Miners and Bucks Ranches, Butte and Plumas Counties—treating with asphaltic road oil as dust palliative 35.8 mi. road between El Dorado and Cosumnes River, Placer and El Dorado Counties—66.2 mi. road between Bruces Corner and Rough and Ready, also between Nevada City and Downiville, Yuba, Nevada and Sierra Counties.

Connecticut—Apr. 4, at office J. A. Macdonald, hy. comr., Hartford, waterbound macadam paving 5,943 ft. hy., Ashford; 2,650 ft. Durham—7,042 ft. Killingworth—10,078 ft. Scotland—1,235 ft. Trumbull—rein.-con. paving 7,390 ft. Stratford, state will furnish cement on this project—twin 42 in. rein.-con. pipe culvert, Trumbull—drainage improvement on Litchfield Rd., Washington; adv. E. N.-R. Mar. 31.

Florida—Apr. 4, by State Roads Comm., Tallahassee, clearing, grading, grubbing, limerock base surface treating 0.67 mi. Project 1090, Rd. 160, Duval Co. B. M. Duncan, Tallahassee, state hy. engr.

Georgia—Apr. 5, by State Hy. Bd., Atlanta, furnishing material, equipment for delivery of stone in Forsyth Co. on Alpharetta-Dawsonville Rd., beginning at Fulton Co. line and ending at Cummings, State Aid Project 23, involving distribution of 21,953 tons 2½ in. down stone at rate of 1,950 tons per mi.; 9,443 tons 1½- to ¾-in. down stone at rate 835 tons per mi., and 1,267 tons ¼ to 10 mesh free from dirt and delivered at rate of 112 tons per mi. Work will be let in one contract, material to be delivered and stacked in piles adjacent to roadway at intervals of 2 mi. beginning 1 mi. north of Fulton-Forsyth County line and ending 1 mi. south of Cummings.

Ill., Toledo—Apr. 6, by Bd. Supervs. Cumberland Co., concrete surfacing 0.1326 mi. Sect. P-15d—0.3625 mi. Sect. 2-M.F.T., both 9 ft.—traffic bound surface course surfacing 0.6668 mi. Sect. 3-M.F.T.—0.7765 mi. Sect. 4-M.F.T.—0.4735 mi. Sect. 6-M.F.T. all foregoing 10 ft. G. H. Baker, c/o State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, engr. county roads.

Indiana — Apr. 5, by State Hy. Comm., Indianapolis, grading, drainage structures, concrete surfacing 69,782 sq.yd. Federal Aid Projects 251-A and B, Hamilton Co. J. J. Brown, dir.

Ind., Versailles—Apr. 4, by Bd. Comrs. Ripley Co., macadam surfacing W. F. Koester and J. F. Anderson Rds. $25,000. W. H. Smith, Versailles, co. aud.

Ia., Dubuque—Apr. 5, at office Auditor Dubuque Co., grading 6.91 mi. trunk roads, incl. 98,500 cu.yd. earth, 4,000 cu.yd. loose rock and 2,500 cu.yd. solid rock excav.; also constructing 1 I-beam bridge, 8 box culverts, 1 box culvert extension.

Ia., Iowa City—Apr. 5, at office Auditor Johnson Co., grading, drainage structures 8.29 mi. local roads—3.25 mi. trunk roads—stone surfacing 19 mi. trunk roads.

Ia., Marion—Apr. 7, at office Auditor Linn Co., crushed stone surfacing 3.26 mi. local roads; 22.35 mi. trunk and local roads, furnishing 1,000 cu.yd. rubble at quarry.

Kan., Wichita—Apr. 4, by C. C. Ellis, city clk., grading, curbing, guttering, concrete paving 1,775 sq.yd. Lorraine Ave.—1,910 sq.yd. Garden Ave.—2,095 sq.yd. Wabash Ave.—836 sq.yd. Orme St.—grading, curbing, guttering, asphaltic concrete paving 29,500 sq.yd. 2nd St. P. L. Brockway, city engr.

Maryland—Apr. 5, by State Roads Comm., Baltimore, G. C. Uhl, chn., macadam resurfacing 2.1 mi. Contr. B-191-42, Baltimore Co.—concrete paving 0.33 mi. Contr. Ce-77-3-23—2.62 mi. Contr. Ce-83-22, both Cecil Co.—2 mi. Contr. Wi-89-12, Federal Aid Project 249-A, Wicomico Co.—gravel surfacing 0.93 mi. Contr. SM-90-82, St. Mary's Co.

Mississipi—Apr. 5, by State Hy. Dpt., Jackson, clearing, grubbing, grading, draniage structures 6.402 mi. Meridian-Macon Rd., also one 1 span 30 ft., one 2 span 22 ft., two 2 span 30 ft. concrete beam and slab bridges on concrete substructures, untreated timber pile founds., concrete railings, also three 20.5 ft. span I-beam bridge with concrete deck, steel channel rails, concrete rail posts, concrete substructure, untreated timber pile founds., using I-beam from existing bridge, all bridges 24 ft. wide, on F.A.P. 107-C, Lauderdale Co. $60,000.

Missouri—Apr. 7, by State Hy. Bd., Jefferson City, grading, graveling, concrete paving roads in Adair, Andrew, Audrain, Cape Girardeau, Carroll, Cass, Cedar, Cooper, Davies, DeKalb, Dent, Doublas, Grundy, Lewis, Mercer, Miller, Moniteau, Monroe, Morgan, Osage, Ozark, Pemiscot, Platte, Ralls, Randolph, Ray, St. Clair, Stoddard, Webster Counties. T. H. Cutler, ch. engr.

Mont., Billings—City, O. W. Nickey, clk., rejected bids Feb. 16, concrete or brick paving 28th and 29th Sts. S., 1st and 2nd Aves. S. Will readvertise. Noted Jan. 7.

Nebraska—Apr. 8, by State Dpt. P. Wks., Lincoln, sand gravel surfacing 82.1 mi. roads and patrol graveling 895.2 mi. roads various parts state. R. L. Cochran, Lincoln, engr.

New York—Westchester Co. Park Comm., 72 West Pondfield Rd., Bronxville, soon takes bids extending 4 mi. Bronx River Parkway Extension from Crompound Rd. to Putnam Co. line, $300,000-$400,000. J. Downer, Bronxville, ch. engr.

New York—Apr. 8, by A. W. Brandt, comr. Hys., Albany, improving hys. in Dutchess, Queens, and Nassau Counties; reconstructing hys. in Madison, Oneida and Steuben Counties.

N. Y., Brooklyn—Apr. 6, by H. Hesterberg, pres. Brooklyn Boro, Boro Hall, grading, granite on concrete paving Coffey St.—grading, curbing, flagging Gilmore Court, Caton, Sheffield, Dumont, Harway Aves., East 56th, East 12th, East 8th, East 57th Sts.—grading, curbing, flagging, asphalt on concrete paving Shore Rd., Rockaway Parkway 11th and 12th Aves., East 27th, East 57th, East 3rd and 50th Sts.

N. Y., Mineola—Apr. 5, by Bd. Supervs. Nassau Co., grading, guttering, asphalt on concrete paving 2,324 ft. Grove St., $30,237; repairing Bayville Bridge, $16,553. F. C. Starks, Mineola, co. engr.

N. Y., St. George—Apr. 6, by J. A. Lynch, pres. Richmond Boro, Boro Hall, grading, reconstructing macadam paving Lamont Ave.; grading, vitr. brick guttering, sidewalks on Norden St.

Pa., Pittsburgh—See "Bridges."

Tennessee—Apr. 8, by State Dpt. Hys. & P. Wks., Nashville, concrete surfacing 7 mi. Dickerson Rd., Davidson Co. R. H. Baker, hy. engr.

Texas—Apr. 4, by W. A. Wurzbach, judge Bexar Co. and County Comrs., Court House, San Antonio, double bituminous treating 7 double blocks, 11,000 sq.yd. 1 in. natural limestone rock asphalt paving in Precincts 3 and 4, $35,000; road improvements in Precincts 1 and 2, incl. 2,850 lin.ft. 10 in. gravel and 1 in. asphalt, 6,800 sq.yd. 1 in. rock asphalt, 175 tons asphalt in place on Manton Ave., 29,000 sq.yd. 1 in. asphalt topping.

Texas—Apr. 4, by G. Gilchrist, state hy. engr., Austin, **(F.A.P. means Federal Aid Project, S.P. State Project and S.A.P. State Aid Project)**, concrete paving 116,509 sq.yd. Hy. 21, F.A.P. 490E, Unit 2, Brazos Co., $150,000—concrete paving 185,516 sq.yd. and early high strength paving 2,351 sq.yd. Hy. 128, S.A.P. 840A Unit 2, Refugio Co., $260,000—163,269 sq.yd. Hy. 9, S.P. 886A and B, Unit 2, Live Oak Co., $220,000—caliche base course surfacing 13.03 mi. Hy. 66, S.P. 931D and E, Unit 2, Live Oak Co., $36,000—grading, drainage structures, single bituminous on caliche base course surface treating 11.822 mi. Hy. 117, S.A.P. 925-B, Units 1 and 2, Hutchinson Co., $64,000—grading, drainage structures 3.816 mi. Hy. 1, S.A.P. 62-B, Dallas Co., $50,000—13,204 mi. Hy. 137, S.A.P. 936-E, Gaines Co., $25,000—15.323 mi. Hy. 4, S.A.P. 854-E, King Co., $56,000—8.644 mi. Hy. 40, F.A.P. 566-C, S.P. 961-C, Cherokee Co., $50,000—8,269 mi. Hy. 40 F.A.P. 606-C, Tyler Co., $44,000.

Utah—Apr. 4, by State Road Comm., Salt Lake City, grading, bridging, gravel surfacing 4.17 mi. Vernal to Jensen Hy., Uintah Co. H. S. Kerr, state hy. engr.

Utah—Apr. 6, by State Rd. Comm., Salt Lake City, grading, graveling 19.613 mi. Lincoln Hy. from Emory to Utah-Wyoming state line, Summit Co. H. S. Kerr, state road engr.

Vermont—Apr. 8, by State Hy. Dpt., Montpelier, concrete paving 7.6 mi. Federal Aid Project 86-C, Lyndon-Burke.

Wash., Chehalis—Apr. 8, by Comrs. Lewis Co., grading, grubbing, crushed stone surfacing 3.4 mi. Cinebar-Silver Creek Rd.; 2.3 mi. McNulty and Burbee Rd. R. L. Greene, Chehalis, co. engr.

Wash., Seattle—Apr. 11, by Comrs. King Co., grading, graveling 3,040 cu.yd. Marine View Dr., 3,365 cu.yd. Kummer Cut-off (south section). T. D. Hunt, Seattle, co. engr. Noted Mar. 24.

Wis., Milwaukee—See "Bridges."

CONTRACTS AWARDED

California—State Hy. Comm., Sacramento, c/o C. H. Purcell, ch. engr., grading, gravel surfacing 0.4 mi. roads in Solano Co., to U. B. Lee, San Leandro, $6,570—R. E. Pierce, dist. engr., Sacramento, applying oil 148 mi. roadside vegetation, various counties, to L. J. Immel, Berkeley, $2,499—J. H. Skeggs, dist. engr., San Francisco, 106 mi. various counties, to C. Huppinger, Lakeport, $5,580—L. H. Gibson, dist. engr., San Luis Obispo, 174 mi., various counties, to Western Motors, Inc., Santa Barbara, $7,568. Grand total $22,217.

California — State Hy. Comm., Sacramento, grading 76 ft. wide, concrete surfacing 40 ft. wide 2.4 mi. road between Santa Ynez Canyon and Santa Monica, Los Angeles Co., to Griffith Co., 502 Los Angeles Railway Bldg., Los Angeles, $148,830. Noted Mar. 10.

Ill., Macomb—Paving 33,000 cu.yd. East Jackson and North Lafayette Sts., to L. B. Dyer, Hoopeston, $70,627.

Indiana — State Hy. Comm., Indianapolis, grading, drainage structures, concrete surfacing 167,377 sq. yd. Federal Aid Projects 242-A and B, 66-B1 and C1 Kosciusko and Wabash Counties, to Bontrager Constr. Co., Elkhart, $182,486 est. $273,043; 106,797 sq.yd. Rd. 67, Federal Aid Project 252, Knox Co., to R.

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Streets and Roads (Continued)

McCalman, Inc., Danville, Ill., $136,435 est. $191,103. Noted Feb. 18.

Ia., Bloomfield—Davis Co., clearing, grubbing, grading incidental work 10.5 mi. Trunk Rd. M. to J. T. O'Neill, Des Moines, $14,844; 30 tons reinforcing steel, to Des Moines Steel Co., 421 Southwest 4th St., Des Moines, $1,112. Rejected bids 1,000 bbl. cement, will purchase same in open market.

Ia., Bloomfield—Davis Co., grading, drainage structures 10.5 mi. secondary road system, to J. T. O'Neil, Des Moines, $14,844.

Ia., Knoxville—Marion Co., grading 80,000 cu.yd. secondary road system, to E. McDonald, Albia, $13,150—one 1-beam, 1 pony truss and 1 timber trestle bridges, to Snyder & Johnson, Humboldt, $4,975—6 culverts, to E. Sternquist, Boone, $1,998. Grand total $20,123. Noted Feb. 11.

Ia., Storm Lake—Buena Vista Co., side east grading 51 mi. various roads, to Weidner & King, Fremont, Neb., on hourly basis. A. H. Cunningham, Court House, engr.

Kentucky—State Hy. Dpt., Frankfort, bank gravel surfacing 10.464 mi. Madisonville-Sacramento Rd., Federal Aid Project 183-A2S and BS, Hopkins and McLean Counties, to Corum Bros., Madisonville, $31,218. Noted Dec. 7.

Kentucky—State Hy. Dpt., Frankfort, grading, drainage structures, using 1st class rein.-con. pipe 4.035 mi. Greenville-Rochester Rd., State Aid Project 65-A2G Mühlenberg Co., to Young & Lyons, Rogersville, Tenn., $43,089. Noted Sept. 24.

Kentucky—State Hy. Dpt., Frankfort, rein.-con. surfacing 4.012 mi. Covington-Morning View Rd., S.P. 104-B. S., Kenton Co., to De Salvo Constr. Co., 2276 Spring Grove Ave., Cincinnati, O., $68,418—5.8 mi. Owenton-Frankfort Rd., Federal Aid Project 221-A-1-S, Owen Co., and 9.797 mi. same road, A-2-S, to Wilmore Paving Co., 1517 Wilmore Bldg., Middleton, O., $69,202 and $122,492 respectively—fill approaches to bridge over Schrub Grass Creek, S.A.P. 43-Al-G, Nicholas Co.; to Ralph E. Mills Co., Inc., Frankfort, $4,055. Grand total $264,-167. Noted Mar. 3.

Kentucky—State Hy. Dpt., Frankfort, rejected bids Feb. 9, grading, drainage structures, surfacing 2.6 mi. Glendale-Dixie Hy., Hardin Co. Work will be done by state forces as reconstruction project. Noted Jan. 28.

Ky., Ashland—See "Grade Crossings."

Mass., Boston—Dpt. P. Wks., repairing any street in Dist. 2 on which there is no maintenance guarantee, to M. F. Gaddis, 6 Beacon St., $61,730; bituminous macadam paving and repairing any street in Dist. 1, on which there is no maintenance guarantee, to Central Constr. Co., 228 Southampton St., Roxbury, $61,845.

Mich., Mason—Ingham Co. Road Comn., shaping, drainage, Class A 12 ft. gravel on 24 ft. flat grade surfacing 2.002 mi. County Road 148 and 0.973 mi. County Road 145, to Johnson & Green, Ann Arbor, $5,212 and $2,324 respectively—2.284 mi. County Rd. 144, to Briggs & Cheney, Dansville, $6,085—2.193 mi. County Road 139 (Williamstown Twp.), to C. Sadler, Williamstown, $5,584. Grand total, $19,205.

Mississippi — State Hy. Comn., Jackson, 9-6-9 in. rein.-con. paving 2.064 mi. Meridian-Livingston Rd., Lauderdale Co., 20 ft., to Cobb Bros. Constr. Co., Meridian, $33,772. Noted Mar. 10.

Mo., Montgomery City—Montgomery Co., grading, bridging, graveling 5.408 mi. Farm-to-Market Rd., from point near Buell to point south of Middletown, to Martin Wunderlich, Jefferson City, $24,311.

Nevada—State Hy. Comn., Carson City, reconstructing state hy., Mineral Co., to A. D. Drumm Jr., Fallon, $18,692; in Lyon Co., to J. N. Tedford, Fallon, $54,224.

Nevada—State Hy. Comn., Carson City, grading graveling 18.22 mi. road between Dunphy and Eureka-Elko Co. line, to Nevada Rock & Sand Co., Reno, $138,909. Est. $130,000.

N. C., Charlotte—City Council, paving and street opening Lela, Woodrow and Thrift Sts., to Blythe Bros., Charlotte, $20,000; underground structures, by city forces.

Oklahoma—State Hy. Dpt., Oklahoma City, **(S.A.P. means State Aid Project, and F.A.P. Federal Aid Project)**, concrete slab surfacing 0.605 mi. U. S. Rd. 50 east of Bakchito, Bryan Co., and concrete surfacing 0.482 mi. U. S. Hy. 77 north of Springer, F.A.P. 134-A, Carter Co., to Ryan & Richards, Inc., 1801 East 9th St., Oklahoma City, $9,599 and $12,501 respectively, est. $15,000 and $25,000 respectively—806 ft. U. S. Hy. 77 near Ardmore, F.A.P. 134-G, Carter Co., to Union Constr. Co., Herskowitz Bldg., Oklahoma City, $4,150 est. $10,000—6.567 mi. U. S. Hy. 270 between McAlester and Bache, F.A.P. 197-A, Pittsburgh Co., to S. O. Maxey & Co., Durant, $112,876 est. $130,000—widening road east of Capitol Building, S.A.P. 814, Oklahoma Co., to Connelly Bros., El Reno, $4,596 est. $15,000—9 span 140 ft. rein.-con. bridge at Union City, Canadian Co., to J. W. Hoffer, Empire Bldg., Oklahoma City, $21,802 est. $25,000. Grand total $165,524.

Pennsylvania — State Hy. Dpt., Harrisburg, grading, concrete surfacing 9,685 sq.yd. Bristol Twp. and Boro, Bucks Co., to F. R. Curtis, State Rd. and Unruh St., Phila., $23,748. Noted Feb. 18.

Pennsylvania—See "Bridges."

Virginia—State Hy. Dpt., Richmond, applying 4,516,000 gal. bituminous material, to Sam E. Finley, 292 North Ave. N.W., Atlanta, Ga., $30,344; 1,005,000 gal., to Southern Asphalt Co., North Boulevard and Ellen Rd., Richmond, $6,734.

Washington—At office S. J. Humes, dir. Hys., Olympia, grading, crushed stone surfacing 7,220 cu.yd. State Rd. 1, Whatcom Co., to Campbell Constr. Co., Renton, $78,507. Noted Mar. 17.

Wash., Seattle — S. J. Humes, dir. Hys., Olympia, and Bd. P. Wks., Seattle, improving south approach to Lake Washington Memorial Bridge (Aurora Ave. et al.), to S. A. Moceri, Inc., 475 Elliott Ave. W., $237,800. Noted Feb. 25.

West Virginia—State Roads Comn., Charleston, grading, drainage structures, crushed slag surfacing approaches to Conoway Bridge, Project 180-B, Marion Co., to R. W. Fimple, Fairmont, $9,631; Guano Creek approaches to culvert, Project 2163-A, Putnam Co., to Mohican Constr. Co., North Philadelphia, O., $8,827. Noted Mar. 10.

N. S., Halifax—Bd. Awards, paving and general repair work, Gottingen, Almon and Windsor Sts., to Standard Paving Co., Halifax, $80,-222 and $24,000 respectively; sidewalks, to Scotia Constr. Co., Halifax, $122,731.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

Ala., Birmingham—A. J. Hawkins, city engr., City Hall, rejected bids Feb. 9, widening, deepening, straightening 2 mi. Sect. 4, Village Creek Drainage Project from 10th St. W. to 16th St. N., incl. 76,300 cu.yd. dry earth and 74,000 cu.yd. dry rock excav., 110 cu.yd. class A concrete, for City Comrs., E. S. Hewes, secy. $105,-000. Will readvertise. Noted Feb. 4.

Colo., Brandon—Colorado Burrell Seed Co., Rocky Ford, will install 6 pumping plants on experimental farm at once, first of proposed irrigation development in Kiowa Co. near here.

Wash., Seattle—City bids early in July, paving, 23 ft. seawall resting on sheet steel and timber piling, 250,000 cu.yd. earth to be placed behind seawall, test borings for seawall starting along Railroad Ave. et al. from Madison to Bay Sts. $1,200,000. D. W. Morris, city engr.

BIDS ASKED

Massachusetts — Apr. 5, by Dpt. P. Wks., State House, Boston, dredging channel to depth of 6 ft. mean low water, constructing 450 ft. stone jetty, 23,000 cu.ft. material to be removed, for Commonwealth of Massachusetts, Boston.

N. J., Long Beach—Apr. 12, by City Council, City Hall, rebuilding jetty, incl. 300 ft. steel to be taken up and reset and supplying, placing 500 tons stone at end of jetty.

O., Hamilton—Apr. 12, at office C. H. Eiffert, ch. engr., Miami Conservancy Dist., Dayton, removing excess material from improved channel of Miami River, involving excavation and placing in spoil banks 400,000 cu.yd. earth excav. Noted Feb. 4.

CONTRACTS AWARDED

Ill., Chicago—New York, Chicago & St. Louis R.R. Co., Terminal Tower Bldg., Cleveland, O., A. C. Harvey, ch. engr., 200,000 cu.yd. fill, grading, leveling for enlarging 103rd St. yards in Chicago yards, to Walsh Constr. Co., 114½ West 3rd St., Davenport, Ia.

Iowa—State Hy. Comn., Ames, filling gully adjacent to Rd. 34, near Mills-Pottawattamie Co. line, incl. 130,000 cu.yd. earthwork, to A. L. Hartman, Whiting, Kan., $15,960. Noted Jan. 11.

Mass., Bourne—See "Piers and Wharves."

Mass., Quincy—See "Garages."

New Jersey—Bd. Commerce & Navigation, Trenton, redredging 142,567 cu.yd. channel in Manasquan River, Brielle and Point Pleasant Boros, to Hill Dredging Co., Ventnor, at $0.169 per cu.yd.

Wash., Seattle—Union Pacific Ry. Co., C. H. Mann, ch. engr., 15th and Dodge Sts., Omaha, Neb., 600,000 cu.yd. fill on tract of land, to Puget Sound Bridge & Dredging Co., Central Bldg.

Bond Elections

Coming Bond Elections

Completing Hetch Hetchy System Waterworks, incl. Tunnels, Connecting Pipe Line, etc.—San Francisco, Calif., May 3, $6,500,000.

Waterworks and Distribution System, Sewers and Disposal Plant—Steelville, Mo., Apr. 7, $41,500 and $32,500. J. W. Shikles & Co., Kansas City, engr.

Waterworks — Watertown, S. D., Apr. 19, $90,000.

Parks—Los Angeles, Calif., May 3, $3,000,000.

Hydro Electric Plant — Stevenson, Wash., $100,000.

Bonds Voted

Waterworks—Tuscaloosa, Ala., W. H. N city engr., $75,000.

Watermains, 20,000 ft., Tank, etc.—Farn N. Y., G. C. Diehl, Inc., Buffalo, N. Y., $40,000.

Sewage Disposal Plant — Sundstron Sani Dist. No. 2, Richmond, Va., $50,000.

Bonds Defeated

Sewage Disposal Plant—Depew, N. Y., $135,
Electric Light System — Hartford, Mi $48,500.

FEDERAL GOVERNMENT

PROPOSED WORK

Ariz., Bisbee—FEDERAL BUILDING—Tr Dpt. at office Sup. Archt., Wash., D. C., eral building. $135,000 appropriated by C gress for same. J. A. Wetmore, Wash., D. superv. archt.

Ariz., Flagstaff — FEDERAL BUILDING Treas. Dpt. at office Sup. Archt., Wash., D. U. S. Federal Building. $140,000 appropriat by Congress for same. J. A. Wetmore, Wash D. C., superv. archt.

Ariz., Jerome—FEDERAL BUILDING—Trea Dpt. at office Sup. Archt., Wash., D. C., feder building. $90,000 funds appropriated by Con gress for same. J. A. Wetmore, c/o owne superv. archt.

Ariz., Kingman—FEDERAL BUILDING—Treas. Dpt. at office Sup. Archt., Wash., D. C plans federal building. $95,000 funds appropriated by Congress for same. J. A. Wetmor c/o owner, superv. archt.

Ariz., Miami—FEDERAL BUILDING—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans federal building. $110,000 funds appropriated by Congress for same. J. A. Wetmore, c/o owner, superv. archt.

Ariz., Winslow — FEDERAL BUILDING—Treas. Dpt. at office Sup. Archt., Wash., D. C plans federal building. $90,000 funds appropriated by Congress for same. J. A. Wetmore, c/o owner, superv. archt.

Conn., Bristol—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., brick, stone post office addition. $125,000. J. A. Wetmore Wash., D. C. archt.

Conn., Fairfield—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans brick, stone post office. $75,000. J. A. Wetmore, Wash., D. C., archt.

Conn., Meriden—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office addition. $70,000. J. A. Wetmore, Wash., D. C., superv. archt.

Conn., New Milford—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., brick, stone U. S. Post Office. $60,000. J. A. Wetmore, Wash., D. C., superv. archt.

Conn., Norwich—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., brick post office. $200,000. J. A. Wetmore, Wash., D. C., archt.

Conn., Plainville—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., brick U. S. Post Office. $75,000.

Conn., Southington—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., brick U. S. Post Office. $65,000.

Ill., Chicago—HOSPITAL—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans completed, soon takes bids 2 story, basement, brick, steel U. S. Marine Hospital addition, incl. nurses and attendants quarters, medical officers quarters, double residences and boiler and laundry plant addition, 4141 Clarendon Ave. $500,000. Thielbar & Fugard, 520 North Michigan Ave., Chicago, archts. C. A. Metz Constr. Co., 520 North Michigan Ave., structural engr. Noted Feb. 2.

La., New Orleans — GUARD LOCK — U. S. Eng., 1st Dist., salt water guard lock, Vermilion Parish, 2 mi. west Vermilion River.

Massachusetts — DREDGING — U. S. Eng., Providence, R. I., 24,900 cu.yd. overlying material and removing 18,436 cu.yd. ledge rock in Taunton River.

Mass., Norwood—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., soon takes bids U. S. Post Office. $130,000. W. H. Upham, 700 Washington St., archt. Noted Jan. 14.

Mass., Springfield—BRIDGE—Treas. Dpt. at office Sup. Archt., Wash., D. C.; steel, concrete bridge over Lyman St. to connect U. S. Post Office with railroad station. $25,000.

Missouri—DIKES, etc.—U. S. Eng., Kansas City, dikes and revetments on Missouri River from its mouth to Kansas City. $300,000 appropriated.

New Jersey—DREDGING—U. S. Eng., Phila., Pa., 2,274,000 cu.yd. in widening and extending upstream the 35 ft. anchorage in Delaware River, near Mantua Creek.

N. J., Freehold—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., 1 story, basement, brick, steel, East Main and Center Sts. $135,000.

O., Fostoria—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans completed by Garfield, Stanley-Brown, Harris and Robinson, Natl. City Bldg., Cleveland, 1 story U. S. Post Office. $160,000. Noted Sept. 17.

Federal Government Work (Continued)

Tex., Big Springs — POST OFFICE — Treas. Dpt at office Sup. Archt., Wash., D. C., sketches by H. M. Greene, LaRoche & Dahl, Construction Bldg., Dallas, U. S. Post Office. $165,000. Noted Jan. 14.

Tex., Fort Sam Houston—STONE FENCE—Con. Q. M., 15 ft. stone fence on 3 sides burial plot and wire fence on 1 side, asphalt and concrete paving drives. $25,000.

Tex., Tyler—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by S. Simons, Tyler, U. S. Post Office. $360,000. Noted Nov. 12.

W. Va., Huntington — WIRE ROPE — U. S. Eng., Huntington, cancelled bids to have been opened Jan. 25, wire rope. Error in specifications. Noted Jan. 21.

BIDS ASKED

Conn., New Haven—DREDGING—Apr. 22, by U. S. Eng., Custom House, Providence, R. I., 100,000 cu.yd. in New Haven Harbor. $35,000; adv. E. N.-R. Mar. 31.

D. C., Wash.—PIPE—Apr. 12, by General Purchasing Officer Panama Canal, 1 tractor with power drive mower, 6 manganese steel dredge dipper lips, 2,000 ft. cast iron soil pipe, malleable iron fittings, etc., Schedule 2741.

Fla., Jacksonville—CUTTER CASTING, etc. —Apr. 8, by U. S. Eng., P. O. Box 45, manganese steel cutter casting and forged steel key for Dredge Welatka.

Ill., Dansville—HOSPITAL—May 3, by Vet. Bu., Arlington Bldg., Wash., D. C., Hospital Building 1, at Veterans' Administration Home; adv. E.N.-R. Mar. 31.

Ill., Joliet—WALLS—Apr. 22, by U. S. Eng., 1st Chicago Dist., 333 North Michigan Ave., Chicago, completing unfinished work at Brandon Road Pool; adv. E.N.-R. Mar. 31. Noted Mar. 17.

Ind., Terre Haute—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., taking new bids from 43 original bidders on revised plans U. S. Post Office. $445,000. Miller & Yeager, 819 Ohio St., archts. Noted Feb. 4.

Ky., Camp Knox — THEATRE — See "Contracts Awarded."

La., Monroe—CEMENT—Apr. 8, by U. S. Eng., Vicksburg, Miss., 1,500 bbl. portland cement to U. S. Warehouse.

La., Shreveport—BARRACKS—Apr. 20, by Con. Q. M., Barksdale Field, air corps barracks. $125,000 appropriated; adv. E. N.-R. Mar. 31. Noted Mar. 17.

Mass., Quincy—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about May 1, 2 story, basement post office, Maple St. $240,000. Parker, Thomas & Rice, 177 State St., Boston, archts. Noted Mar. 3.

Mich., Fort Wayne—SHOP—Apr. 20, by Con. Q. M., Selfridge Field, blacksmith and wheelwright shop.

Mich., Milan — JAIL — Apr. 21, by Bureau Prisons, Dpt. Justice, Wash., D. C., jail, incl. sewers, water, etc. $360,000. Noted Sept. 10.

Mississippi and Arkansas—EARTHWORK—Apr. 12, by U. S. Eng., P. O. Box 667, Vicksburg, Miss., 5,584,700 cu. yd. earthwork (8 items) on east and west banks Mississippi River; adv. E.N.-R. Mar. 31.

Nev., Boulder City—SCHOOL—Spec. 566-D—Apr. 18, by Bureau Reclamation, Denver, Colo., 1 story, 57 x 180 ft. concrete, timber school. Noted Mar. 17.

N. Y., Mineola—GYMNASIUM—Apr. 18 (extended date), by Con. Q. M. Mitchell Field, gymnasium. Noted Jan. 28.

Okla., Miami—POST OFFICE—Apr. 21, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted Apr. 16.

Pa., Coatesville—POST OFFICE—Apr. 20, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office; adv. E. N.-R. Mar. 31.

Pa., Lewisburg — ELEVATOR — Apr. 13, by Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator in U. S. Post Office.

S. C., Charleston—DREDGING—Apr. 20, by U. S. Eng., 31,538 cu.yd. in mouth Sampit River.

Tenn., Knoxville—POST OFFICE—Apr. 26, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $1,000,000. Noted Mar. 24.

Tenn., Memphis—ELEVATOR—Apr. 18, by Treas. Dpt. at office Sup. Archt., Wash., D. C., passenger elevator in U. S. Marine Hospital.

Tenn., Memphis—BOILER—Apr. 5, by U. S. Eng., Memphis, locomotive type boiler.

Va., Norfolk — DREDGING — Spec. 6816 — Apr. 6, by Yards & Docks, Navy Dpt., Wash., D. C., 460,000 cu.yd. at Naval Operating Base.

Washington—ROAD—Spec. 565-D—Apr. 7, by Bureau Reclamation, Denver, Colo., flow line road from Cle Elum Reservoir, Yakima Project.

Wash., Longview — POST OFFICE, etc. — Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about Apr. 1, 2 story, basement, 105 x 120 ft., rein.-con., sandstone post office and custom house. $225,000. Bebb & Gould, Hoge Bldg., Seattle, and J. Graham, Dexter Horton Bldg., Seattle, archts. Noted Feb. 25.

Canal Zone — VALVES — Apr. 4 (extended date), by A. L. Flint, genl. purch. officer, Panama Canal, butterfly valves, etc., for Madden Dam, Schedule 2725. Noted Feb. 4.

CONTRACTS AWARDED

Ala., Montgomery—ELEVATOR—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator in U. S. Post Office, to Otis Elevator Co., 810 18th St. N. W., Wash., D. C., $33,529.

Ark., Jacksonport — EARTHWORK—U. S. Eng., McCall Bldg., Memphis, Tenn., 12,000 cu.yd. earthwork in Levee Dist. 2, to J. S. Kochitizky, Jr., England. $2,160.

Ark., North Little Rock—DISTRIBUTION SYSTEM—Vet. Bu., Arlington Bldg., Wash., D. C., electric distribution system, to Nelson Electric Co., Fort Scott, Kan., $30,000.

Calif., Sacramento—ELEVATOR—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator in U. S. Post Office, to Otis Elevator Co., 810 18th St. N. W., Wash., D. C., $35,275.

D. C., Wash.—LIBRARY—D. Lynn, archt. of Capitol, Library of Congress addition, to Jacobson Bros., 19 South LaSalle St., Chicago, Ill., $1,123,000. Noted Jan. 14.

Ind., Whiting—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Forest Building Constr. Co., Gary, $60,761. Noted Feb. 25.

Ky., Camp Knox — THEATRE, etc. — U. S. Eng., brick theatre, mess halls, at Camp Knox by purchase and hire system. $60,000. Noted Mar. 17.

Mass., Boston—TIES—Con. Q. M., Army Base, 975 railroad ties and 2 sets switch ties, to G. Elias & Bros., 965 Elk St., Buffalo, N. Y. $1,637.

Mich., Detroit—ELEVATORS—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevators in U. S. Post Office and Court House, to Otis Elevator Co., 810 18th St. N. W., Wash., D. C., $177,497. Noted Feb. 2.

Minn., Duluth — MACHINE PARTS — U. S. Eng., machine parts, gears, shafting, and repairing cutter head for dredge Traverse, f.o.b. U. S. Eng. Vessel Yard, Minnesota Point, Duluth, to Superior Iron Wks. Co., Lamborn Ave. and North 3rd St., Superior, $1,230; for one additional unit of each four parts, $244.

Miss., Vicksburg—WIRE ROPE—U. S. Eng., P. O. Box 667, wire rope, to Wire Rope Co., 464 Congress Ave., New Haven, Conn., $35,950.

Mo., Kansas City—WIRE—U. S. Eng., 210,000 ft. ⅜ in. galvanized strand wire f.o.b. Jefferson City, to Sheffield Steel Corp., Sheffield Station, at $11.58 per M ft.; 3 lengths galvanized special riveted steel pipe 18 in. x 22½ ft., to H. Channon Co., Kansas City at $80 per section; 36 pcs. various size fabricated structural steel, to Darby Corp., 923 North 3rd St., $113; 132 bolts and nuts, various sizes, to Builders Steel Co., 12th and Gentry Sts., $9.48.

Mo., St. Louis—WHEEL—U. S. Eng., 428 Custom House, hydraulic wheel, to Blackman-Hill Co., 1513 North Bway., $2,125.

N. Y., Glens Falls—REMODELING, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office, to United Constr. & Eng. Co., Pawtucket, R. I., $25,000. Noted Mar. 3.

O., Findlay—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to H. G. Christman Co., South Bend, Ind., $154,000. Noted Feb. 25.

Wyoming—ROAD—Pub. Rds., Denver, Colo., grading, surfacing 27.385 mi. Wind River Hy., in Wind River Natl. Forest, Fremont Co., to Morrison Knudsen Co., Boise, Idaho, $191,240. Noted Mar. 10.

Alaska, Fairbanks—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, court house, jail, to W. McDonald Constr. Co., Syndicate Trust Bldg., St. Louis, Mo., $393,000. Noted Dec. 3.

RAILWAYS

PROPOSED WORK

Kentucky—See "Unclassified, under Ashland, Ky."

Texas and Colorado — Atchison, Topeka & Santa Fe R.R. Co., W. W. Kelly, Amarillo, ch. engr. (Western lines) extending Boise City-Amarillo, Ry. line, 100 mi. from Amarillo, Tex. to Las Animas Colo. $8,000,000. **Maturity this year.** Noted Oct. 31, 1929.

BIDS ASKED

Colorado—See "Contracts Awarded."

CONTRACTS AWARDED

Colorado—Atchison, Topeka & Santa Fe R.R. Co., W. W. Kelly, ch. engr. (Western Lines), Amarillo, Tex., furnishing steel rails and fastenings for railroad between Nepesta and Avondale, to Colorado Fuel & Iron Co., Pueblo. Track replacement work, own forces. Total est. $110,000. **Maturity in August.**

Illinois—See "Excavation, Drainage, Irrigation, Levees, River and Harbors, under "Chicago."

New York—See "Materials, under New York, N. Y."

New York, New Jersey and Pennsylvania—Delaware, Lackawanna & Western R.R. Co., J. G. Ray, ch. engr., Hoboken, N. J., 3,000 tons rails to Bethlehem Steel Co., 25 Bway., New York. Owner just purchased 120,000 tons crushed stone ballast and track tools, all work to be done by day labor.

SUBWAYS AND TUNNELS

BIDS ASKED

N. Y., New York—Apr. 5, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., installing tracks and contact rail for part Rapid Transit R.R., Route 101 Sects. 4 and 5 and Route 103, Sects. 1, 2 and 3.

CONTRACTS AWARDED

Que., Montreal—City Executive, tunnel on de Salabery St., to George Mills & Sons, Ltd., 2 York St., $168,075; tunnel on Gosford St., to Anglin-Norcross Co. Ltd., 2063 Victoria St., $101,000.

Que., Montreal — City Executive, subway Rachel St., to Janin Constr. Co. Ltd., Montreal $112,500

GRADE CROSSINGS

PROPOSED WORK

N. J., Jersey City—Pennsylvania R.R. Co., T. J. Skillman, ch. engr., Broad Street Sta., Phila., Pa. steel, concrete underpass under Journal Square exit to bus plaza. $35,000. Pub. Utility Comn. denied extension of time and must build at once.

N. Y., Elma—Pennsylvania R.R. Co., T. J. Skillman, ch. engr., Broad Street Sta., Phila., Pa., revised plans with temporary alignment and trestles approved by Pub. Serv. Comn. To exceed $25,000. Noted Mar. 24.

N. Y., Farmersville—Pennsylvania R.R. Co., T. J. Skillman, ch. engr., Broad St. Sta., Phila. Pa., soon takes bids eliminating Napier Crossing, 2 mi. north of Franklinville. $42,300 Pub. Serv. Comn. approved plans. Noted Dec 19, 1929, under "Franklinville."

N. Y., New Albion — Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., soon takes bids eliminating Pingleton Middle and Winship crossings. $51,700. Pub. Serv. Comn. approved plans. Noted Feb. 5.

N. Y., Voorheesville—Delaware & Hudson R.R. Co., J. MacMartin, ch. engr., Albany, bids in spring 1,423 ft. underpass for eliminating grade crossing. $37,600.

Tex., Dallas—City, c/o J. W. Everman, Dpt. P. Utilities, Missouri-Kansas & Texas R.R., F. Ringer, St. Louis, Mo., ch. engr. and St. Louis Southwestern R.R., W. S. Hanley, Tyler, ch. engr. and Rock Island R.R., W. M. Petersen, Chicago, Ill., ch. engr., soon take bids steel, concrete rein.-con. underpass, approaches, Lamar St. $325,000. This corrects report in Mar. 17 issue.

CONTRACTS AWARDED

Ky., Ashland—State Hy. Dpt., Frankfort, and Bd. Supervs. Boyd Co., Catlettsburg, lower end project of overhead crossing, Winchester Ave., incl. 2 bridges and grading 1 mi., to Ashland Supply Co., 25th and Central Ave., $60,000.

Mass., Boston—Dpt. P. Wks., concrete footway underpass under New York, New Haven & Hartford R.R., Greenfield Rd., to Baker, Matz & Co., 25 Zamora St., Jamaica Plain; Est. $25,000. Noted Mar. 10.

N. Y., Elmira—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., eliminating (1st stage) grade crossings, to H. E. Culbertson Co., Union Trust Bldg., Cleveland, O., $189,462. Noted Apr. 16.

DAMS

CONTRACTS AWARDED

Calif., Los Angeles—Bd. Supervs. Los Angeles Co. Flood Control Dist., E. L. Eaton, ch. engr., 212 North Bway., San Gabriel Dam 2, joint bid, to Lewis Constr. Co., 210 South Vermont Ave., Los Angeles, and Macco Constr. Co., Hynes. $2,086,950. Noted Mar. 10, under "Waterworks."

PIERS AND WHARVES

CONTRACTS AWARDED

Mass., Bourne—PIER—State. Dpt. P. Wks., State House, Boston, pier, 75 x 600 ft. series pile dolphins, dredging 350,000 cu.yd. material in berth and turning basin, westerly end Cape Cod Canal, to Merritt, Chapman & Scott Corp., 1715 Industrial Trust Bldg., Providence, R. I., Option A $200,618. Noted Mar. 10.

AIRPORTS

PROPOSED WORK

Ind., Muncie—F. and E. Bell soon take bids 1 story, 80 x 80 ft. structural steel airplane hangar, metal siding, metal roofing, concrete floors and found., steel sash. $25,000. Private plans.

New York—Westchester Airport Assn., c/o J. F. O'Ryan, Colonial Air Transport Co., 122 East 42nd St., New York, airport in Westchester Co.

CONTRACTS AWARDED

Mo., St. Louis—Bd. P. Serv., City Hall, installing 2 plunger type elevators, elevator doors, 2 horizontal pumps, motors, hatchway doors, hydraulic gage, air compressor, and dumbwaiter for Lambert-St. Louis Municipal Airport administration building, to W. A. Miller Mchy. & Elevator Co., 920 North Main St., $9,898.

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GRAIN ELEVATORS

PROPOSED WORK

Neb., Kearney — GRAIN ELEVATOR — Farmers National Grain Corp., 733 Omaha Grain Exch. Bldg., Omaha, 500,000 bu. terminal elevator for Farmers West Central Grain Corp. Architect and engineer not appointed.

POWER AND LIGHTING

PROPOSED WORK

California—Southern Counties Gas Co., 810 South Flower St., Los Angeles, plans 105 mi. 12¾ in. pipe line from Long Beach to point in Rose Canyon, San Diego Co. $1,000,000. **Maturity soon.** A. F. Bridge, c/o owner, engr.

Calif., San Diego—San Diego Gas & Electric Co., Electric Bldg., 10 mi. 12¾ in. pipeline from point in Rose Canyon to distribution works; also 100,000 cu.ft. capacity tanks, changing over equipment for natural gas purposes. $500,000. Total investment $1,500,000. **Maturity soon.** D. M. Perkins, c/o owner, engr.

Illinois—Central Illinois Pub. Serv. Co., 217 North 9th St., Springfield, constructing and operating gas transmission systems in Carrollton, Jerseyville, Pittsfield, Tuscola, Villa Grove, and Virginia.

Ill., Wilmette—City Council, plans completed 401 rein.-con. light standards and cast aluminum lamps, appurtenances $150,000; 31 rein.-con. light standards and cast aluminum lamps, $7,900. **Maturity in summer.** Public hearing Apr. 15. F. H. Gurdes, 127 North Dearborn St., Chicago, engr. Noted Dec. 3.

Tex., Gladewater—City, preliminary surveys constructing white way, paving city streets, park improvements, building playgrounds, etc. $150,000—$500,000.

Que., L'Abord a Plouff — Montreal Light, Heat & Power Co., 107 Craig St. W., Montreal, gas distribution mains. $50,000.

BIDS ASKED

Kan., Oswego—City, E. S. Vance, clk., taking bids gas distribution system, incl. 64,475 ft. 1- to 4-in. steel or c.i. pipe, 4 regulators, 16 gate valves, 10 tons pipe coating, six hundred and fifty 1 in. short knuckles. $30,000. N. Nafus, City Hall, and W. S. Ruggles & Co., 101 West 6th St., Emporia, engrs. Noted Mar. 3.

N. J., Jersey City—Apr. 5, by Bd. City Comrs., City Hall, electric lighting system in Columbia Park, Hudson Blvd. and Bartholdi Ave. $25,000. J. Henderson, city engr.

PARKS AND SPORTS

PROPOSED WORK

Conn., Bridgeport—Brooklawn Country Club, Brooklawn Ave., preparing plans 45 x 140 ft. concrete outdoor swimming pool. $25,000. E. B. Caldwell, 886 Main St., engr.

Ill., Chicago — Private interests, c/o B. H. Marshall Co., archts., 200 East Walton Pl., 280 x 325 ft. athletic and sports garden building to be known as Blackhawk Winter Garden, incl. boxing, wrestling, circuses, convention halls and skating rinks. $2,000,000, incl. equipment.

Me., Presque Isle — Town, Bd. Selectmen, plans by V. Hodgins, 39 Hammond St., Bangor, 1 story, brick, timber gymnasium. $25,000 or more. Noted July 9.

Mass., Arlington — Town, Bd. Selectmen, bathing beach, bath houses, etc., Spy Pond. $25,000 or more.

Mass., Belmont—Town, Park and Playground Comn., revised plans by Wadsworth, Hubbard & Smith, 11 Beacon St., Boston, 1 story field house, Concord Ave. playground. $25,000-$30,000. Former bids rejected. Noted Mar. 19.

Mass., Milton—Town, Park Dpt., concrete bleachers, Brook Rd. Playground. $25,000.

Mass., North Attleboro—Town, Bd. Selectmen, new playgrounds. $50,000 bequeathed by late J. F. Mason.

N. Y., Elmhurst—Dpt. Parks, W. R. Herrick, pres. Park Bd., Arsenal Bldg., Central Park, New York, park and playground improvements on 83½ acre site, Juniper Swamp. $500,000. Site selected, purchase and improvement of same when funds are available.

Tex., Fort Worth — Fort Worth Park Bd., financing park improvements, incl. building drives and 18 hole golf course. $40,000.

Tex., Gladewater—See "Power and Lighting."

Utah, Salt Lake City — Saltair Beach Co., c/o A. Snow, pres., rebuilding portion Saltair Beach Resort, incl. amusement devices, roller coaster, etc. $100,000. Architect not appointed.

Wash., Pullman—Associated Students, Pullman, 1 story, 100 x 100 ft. ice arena and equipment. $100,000. S. Smith, Washington State College, archt.

Ont., London—London Memorial Park Co., 291 Dundas St., C. G. Secord, mgr., plans expending $100,000 this spring for 1 story, basement, 75 x 100 ft., brick, stone administration building, incl. power plant, water and steam heating system, 60 x 260 ft., concrete and tile mirror lake with large ornamental fountain in center, storm drains, ornamental gates. Watt & Blackwell, Victor Bldg., Dundas St., archts.

BIDS ASKED

Conn., Stamford—Shippan Beach Club, G. H. Abbott, taking bids 90 x 150 ft., stucco, terra cotta beach house, $60,000; swimming pool, $15,000, Shippan Point. S. Constable, 227 Bedford Ave., archt. Noted Mar. 24.

Ill., Chicago—Apr. 8, by Lincoln Park Comrs., Clark and Center Sts., and B. H. Marshall, archt., 612 Sheridan Rd., Wilmette, 2 story, part basement, 80 x 600 ft., rein.-con., brick, steel bath house, plain found., incl. lounges, dressing rooms, showers, 2 covered terraces, Outer Dr. naer Sunnyside. $180,000. Smith & Brown, 307 North Michigan Ave., engrs.

Ind., Elwood — Park Bd. taking bids bath house and rein.-con. swimming pool. $30,000. Leonard & Wolf, Frankfort, engrs.

Kan., Kansas City—Apr. 4, by Bd. Educ., G. A. Widder, clk., 40 x 129 ft. rein.-con. stadium, 40 ft. high, 1,000 seating capacity, at Summer High School for Colored. Noted Dec. 4.

Kan., Wichita—F. M. Campbell, bids about May 15, amusement park, incl. bathing beach, bath house, pumping equipment, lighting, dance pavilion, picnic grounds. $50,000. F. H. Owens, assistant mgr.

Mass., Salem—See "Contracts Awarded."

Pa., Pittsburgh—See "Bridges."

CONTRACTS AWARDED

Ind., New Albany—New Albany Country Club, A. P. Hauss, pres., outdoor swimming pool near club, more than $10,000 to be expended in improvements, lockers and shower rooms already installed.

Mass., Salem—City, O. G. Pratt, supt. Park Comn., municipal golf course, Highland Park and Cabot Farm, day labor. $30,000. Stiles & Van Kleek, 97 Newbury St., Boston, archts. Noted Dec. 25.

Tex., College Station—A. & M. College, c/o Business Manager, 60 x 100 ft. rein.-con., steel truss swimming pool. $60,000. Owner builds. F. E. Gieseke, college archt. Noted Dec. 10.

Que., Montreal—City Executive, gymnasium, Laurier Ward, to Bremner Norris, Ltd., 2049 McGill College, $75,000.

HEATING AND VENTILATING

PROPOSED WORK

N. Y., New York—New York Steam Co., 280 Madison Ave., underground steam mains, extending below 27th St. To exceed $250,000.

BIDS ASKED

N. Y., Dannemora—Apr. 14, by Comrs. Dpt. Correction, State Office Bldg., Albany, construction, heating, electrical work for steam duct from Clinton Prison Power House Duct and service connections, Dannemora State Prison; adv. E.N.-R., Mar. 31.

CONTRACTS AWARDED

Mass., Palmer—See "Waterworks."

N. J., Kingston—F. F. Durang, archt., 101 Park Ave., New York, heating and plumbing chapel, to N. Connolly, 1404 North 18th St., Phila., Pa., for St. Joseph's College, J. Dunn, pres., Acqueduct, Princeton. Noted Mar. 24, under "Schools."

Pennsylvania—J. L. Hanna, secy. Property and Supplies, Harrisburg, steam and return lines at Mansfield, to C. G. Kottcomp & Sons, York, $35,138; service lines, tunnels, etc., at Polk, to A. Phelps & Son, 6319 Michigan St., Detroit, Mich., $24,789; piping at Polk, to F. P. Andrews & Sons, New Castle, $20,400; steam and return lines at Clarion, to L. O. Bonquin, Oil City, $13,652. Grand total $93,959. Noted Feb. 11, under "Power and Lighting."

UNCLASSIFIED

PROPOSED WORK

Ia., Mitchellville—RADIO BROADCASTING STATION—Central Broadcasting Co., Liberty Bldg., Des Moines, broadcasting station. $125,000.

Ky., Ashland—MINES—Tavern Rock & Sand Co., 965 Wall St., Toledo, O., subsidiary Illinois Owens Glass Works, developing mines for glass sand on 275 acre site, incl. furnishing mine machinery, constructing 2.5 mi. railroad.

N. Y., New York—FIRE ALARM EQUIPMENT—Fire Dpt., Municipal Bldg., purchasing, installing fire alarm equipment, for Bronx Central Office, 1129 East 180th St., when funds become available. $50,000.

Pa., Jeannette—BROADCASTING STATION—H. V. Spencer, broadcasting station, incl. radio towers, broadcasting equipment. Private plans. Site not selected.

Pa., Scottdale—BROADCASTING STATION—M. K. Berger, 100 watt broadcasting station, incl. radio towers, 12 A watt transmitter, Pigeon Hill near Upper Tyrone Twp. $25,000. Private plans.

BIDS ASKED

Neb., Omaha — REBUILDING CARS — See "Contracts Awarded."

N. Y., Auburn—GATE—Apr. 19, at office Dpt. Correction, W. N. Thayer, Jr., State Office Bldg., Albany, steel covered gate at Auburn State Prison.

Man., Churchill—FREIGHT SHED—Ap by J. W. Pugsley, secy., Dpt. Railways & Ca Ottawa, Ont., freight shed on main $55,000.

CONTRACTS AWARDED

Nebraska—GAS PIPE LINE, etc.—Nort Natural Gas System, 1515 City Natl. B Omaha, 4 in. gas line from David City Schuyler and 14 mi. 8 in. pipe from Schu to Columbus and distribution system at Schuy to Reece McGee Constr. Co., Blackwell, O Noted Mar. 17.

Neb., Omaha—REBUILDING CARS—Om & Council Bluffs Street Ry. Co., Union St Bank Bldg., rebuilding 52 street cars from to 1 man type, incl. installing automatic opening equipment, day labor. $94,000. O Hill, 26th and Lake Sts., master mecha Work started.

N. Y., Central Islip — REFRIGERATION Commissioner Dpt. Mental Hygiene, State Of Bldg., Albany, refrigeration equipment din room and kitchen building, James Group, York Ice Mchy. Co., 242 East 122nd St., N York, $8,110; elevator, to Otis Elevator C 130 Clinton St., Brooklyn, $8,867. Not Feb. 18.

N. Y., New York — CONNECTIONS TRACK BONDING—Bd. Transportation, J. Delaney, chn., 250 Hudson St., d.c. connectio and track bonding for part Independent Syst City-owned Rapid Transit Railroads, to Er son Equipment Co., 452 Lexington Ave., $11 400. Noted Feb. 25.

N. Y., New York—ELEVATORS—Marc E litz & Sons, contractors, 100 East 42nd St elevators for 20 story bank building, 2 Wa St., to Otis Elevator Co., 130 Clinton St Brooklyn, for First Natl. Bank, 2 Wall S Noted Dec. 31 under "Banks."

N. Y., Saratoga Springs—TILE and MARBL WORK, etc. — P. B. Noyes, chn. Saratog Springs Comm., 376 Bway., Saratoga Spring ceramic tile and marble work for baths, pool etc., to A. Mion & Son, 428 Michigan Av Schenectady, $6,850; rubber-tile flooring, to E. Kennedy, 16 East 52nd St., New York $6,989. Noted Feb. 25.

W. Va., Charleston—CULVERTS—Kanawha Co. Court, Gordon and Mills Creek Culvert Project 183-A and 246-A, to Kerr & Bisho Morgantown, $9,366; Paint Creek Culverts, Pro ect 249-A, to Haynes Bros., Morgantow $4,608. Noted Mar. 10.

MATERIALS

PROPOSED WORK

CEMENT—**Burlington, Ia.**—Des Moines Co c/o Auditor, rejected bids Mar. 10, 1,000 bbl cement. A. G. Baker, Burlington, co. engr.

ROAD OIL, etc.—**Clifton, N. J.**—Bd. City Council, City Hall, soon takes bids 50,000 gal road oil and crushed stone for road work to Road Dpt. $5,000 or more. J. Fitzgerald, city engr.

BITUMINOUS MATERIAL—**Virginia**—State Hy. Dpt., Richmond, rejected bids Mar. 11 furnishing 12,447,000 gal. bituminous material Will readvertise.

BIDS ASKED

WIRE LEAD CABLE—**Hartford, Conn.**—Apr 12, by Bd. Contr. & Supply, J. R. Bush, secy., 5,000 ft. more or less 7 conductor cable; 5,000 ft. more or less 10 conductor cable; 1,000 ft more or less 20 conductor cable.

ASPHALT, etc.—**Indianapolis, Ind.**—Apr. 4, by Bd. Comrs., Marion Co., asphalt, gravel, road oil, crushed stone, blades, concrete pipe tile, bridge paint, bridge lumber, for free gravel road department. C. A. Grossart, co. aud.

SEWER PIPE—**Newport, Ind.**—Apr. 4, by Bd Comrs. Vermilion Co., sewer pipe in several sizes and weights for 1932. W. A. Rein, co. aud

PILING, LUMBER, etc.—**Newton, Ia.**—Apr. 7, at office Auditor Jasper Co., 3,480 lin.ft creosoted piling, 52,580 bd.ft. creosoted lumber, 400 creosoted sign posts, 10 I-beam spans, 10,000 lin.ft. corrugated pipes.

PIPE—**Anoka, Minn.**—Apr. 4, by City, 2,650 lin.ft. 4 and 6 in. c.i. pipe, 5 hydrants, specials. Wayne Ridge, city clk.

BRICK—**Minneapolis, Minn.**—Apr. 7, by F. S. Gram, city purch. agt., City Hall, 21,000 interior face brick; 275,000 exterior face brick, 17,000 salt-glazed vitr. brick; 1,600 corners, miters, for Bd. Educ., City Hall.

ROAD OIL—**Minneapolis, Minn.**—Apr. 4, by Hennepin Co., A. P. Erickson, aud., 800,000 gal. road oil. W. E. Duckett, co. hy. engr.

CEMENT, PILING, etc.—**York, Neb.**—Apr. 26, by J. Muir, clk York Co., cement in car-load lots, culverts, fir bridge plank, cypress and red cedar piling.

STONE SCREENINGS—**Palisades Park, N. J.**—Apr. 11, by Palisades Park Comn., 141 Worth St., New York, N. Y., 2,000 cu.yd. stone screenings either loaded on commission trucks at bidder's crusher or delivered in truck load lots and spread as directed as follows, 250 cu.yd. in Hazards Beach Section, 100 cu.yd. Englewood Section and 750 cu.yd. Alpine Section.

HIGHWAY MATERIALS—**New York**—Apr. 7, by F. L. Morris, supt. Standards & Purchase, Albany, highway materials for 1932 in Div. Hys. such as asphalt, cement sand and gravel.

Materials (Continued)

BITUMINOUS MATERIAL—**Albany, N. Y.**—Apr. 8, by J. H. Benson, purch. agt. Albany Co., purchasing bituminous material for 1932, emulsion type 1-3-5.

SAND, etc.—**Long Island City, N. Y.**—Apr. 4, by G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., 10,000 cu.yd. sand alongside dock, at asphalt plant, Flushing; 5,000 cu.yd. sand, all wards; 500,000 gal. asphaltic macadam binder in tank cars; 200,000 gal. calcium chloride.

STEEL—**New York, N. Y.**—Apr. 8, by M. F. Kenney, deputy and acting comrs. Purchase, Municipal Bldg., fabricated structural steel to Dpt. Plant & Structures.

TIES, etc.—**New York, N. Y.**—Apr. 8, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., treated ties and untreated contact rail protection boards for use in Rapid Transit Railroads; also furnishing, delivering and installing storage equipment, partitioning, sliding doors, etc., for 207th St. Yard, and storage equipment at substation, 126 West 53rd St.

SULPHATE OF ALUMINA—**Troy, N. Y.**—Apr. 8, by K. V. Hogan, city clk., 40,000 lb. sulphate of alumina for filtration plant in city of Wateruliet.

ASPHALTIC ROAD OIL, etc. — **Brantford, Ont.**—Apr. 7, by W. M. Ryerson, alderman, City Hall, furnishing annual supplies, incl. asphaltic road oil, paving asphalt, portland cement, limestone dust, c.i. castings, vitr. tile sewer pipe, gasoline and motor oil. $30,000. F. P. Adams, City Hall, engr.

CRUSHED STONE, etc.—**Toronto, Ont.**—H. D. Goode, Willowdale, taking bids crushed stone and screenings in carload lots at various sidings; unloading, hauling, spreading crushed stone and screenings on various streets; supplying, hauling, spreading gravel on various streets, for North York Twp. $30,000. G. Baker, Twp. Offices, Willowdale, engr.

CONTRACTS AWARDED

ASPHALT, etc.—**Indianapolis, Ind.** — City Council, A. H. Losche, purch. agt., City Hall, 250 tons refined asphalt and 75,000 gal. road oil, to Texas Oil Co., 323 North Patterson Ave., $4,148 and $2,125 respectively; 250 tons refined asphalt and 75,000 gal. road oil, to Standard Oil Co., 137 West 11th St., $4,238 and $2,125 respectively; 1,000 tons stone dust and 3,000 tons asphalt, to F. M. Dell, 1001 South Eastern Ave., $6,000 and $4,380 respectively; 50,000 paving brick, to Indianapolis Coal Co., 234 Bankers Trust Bldg., $1,147. Grand total $24,163. Also 300 drums emulsified asphalt, to Hayes Constr. Co., 1503 West 30th St., at $0.1068 per gal.; 4 cars crushed stone, to F. M. Dell, 1001 South Eastern Ave., at $1.81 per ton; 12 car loads concrete gravel, 2,000 tons river sand, 8 car loads concrete sand, to Glenn Trucking Co., 529 West Court St.; 8 cement companies divided contract for 2,000 bbl. at $1.65 per bbl. Noted Mar. 3.

STEEL and CEMENT—**Bloomfield, Ia.**—See "Streets and Roads."

LUMBER, etc.—**Burlington, Ia.**—Des Moines Co., c/o Auditor, to E. S. Gaynor Lumber Co., 1819 East 3rd St., Sioux City, 300 pieces 2 x 10 x 16 ft. C fir lumber at $35.25 per 1,000 ft., delivered, 300 pieces 2 x 8 x 16 ft. at $35.25, 800 pieces 2 x 6 x 16 ft. $35.25, 250 pieces 3 x 12 x 14 ft. D fir lumber $35.90, 1,350 pieces 3 x 12 x 16 $35.90, 25 pieces 24 ft. creosoted yellow pine piling at $0.45 per ft., 30 pieces 20 ft. at $0.45, 45 pieces 16 ft. at $0.45 per ft.; to J. D. Adams Co., 217 South Belmont Ave., Indianapolis, Ind., 60 double punched graded blades 12 ft. per 6 ft. section $3.19 and 16 ft. per 8 ft. section $4.33; to Clinton Bridge Wks., Clinton, 36,000 lb. ⅝ in. round reinforcing steel at $1.73 per cwt. delivered, to Iowa Culvert & Pipe Co., Des Moines, 1,292 ft. 15 in. corrugated metal pipe at $0.49 per ft. delivered, 840 ft. 18 in. $0.70, and 840 ft. 24 in. $0.90.

PIPE, LUMBER, etc.—**Orange City, Ia.**—Bd. Supervs. Sioux Co., c/o M. J. Van Wyk, aud., 1,440 ft. 15 in., 4,140 ft. 18 in., 3,620 ft. 24 in., 150 ft. 30 in. and 450 ft. 36 in. metal corrugated pipe, to Iowa Culvert & Pipe Co., Des Moines, $8,121; 148,880 ft. Class D full sawed fir lumber, 47,129 ft. Class A creosoted yellow pine lumber, 3,712 ft., 14 and 16 ft., 1,354 ft. 20 and 22 ft., 1,224 ft. 24 ft., 336 ft. 28 ft., 240 ft., 30 ft. creosoted yellow pine piling, to Nebraska Bridge Supply & Lumber Co., 448 Peters Trust Bldg., Omaha, Neb., $10,646. Noted Mar. 3.

GRANITE EDGESTONES—**Boston, Mass.**—City, Supply Dpt., P. A. Chapman, supt., granite edgestone as specified, to Dpt. P. Wks., to C. & R. Constr. Co., 75 Bradeen St., Roslindale, $77,660. Noted Mar. 10.

PILES, etc.—**Salem, Mass.**—City, Purchasing Agt., City Hall, furnishing piling, to Pitman Brown Co., 11 Washington St., at $0.27 per ft.; lumber, to J. P. Langmaid & Sons, 311 Darby St., $1,456.

PIPE SPECIALS—**Minneapolis, Minn.**—City, 100 tons 6- to 24-in. c.i. pipe specials for Water Dpt., to Crown Iron Wks. Co., 1229 Northeast Tyler St., at $43.75 per ton; 25 tons 30 in. c.i. water specials, to Midway Fdry. Co., 682 Raymond Ave., St. Paul, $65 per ton.

SEWER BRICK—**Minneapolis, Minn.**—F. S. Gram, city purch. agt., 125,000 vitr. sewer brick, to Wunder-Klein-Donohue Co., 319 2nd Ave. S., at $15.40 per 1,000 net. Noted Mar. 17.

CAST IRON PIPE—**Rochester, Minn.**—City to American Cast Iron Pipe Co., 712 Plymouth Bldg., Minneapolis, 5,000 ft. standard monocast centrifugal cast iron pipe, 16 ft. lengths, at $0.5975 per ft.; 800 ft. 4 in. pipe at $0.435; 2 tons fittings $0.0475 per lb., total $3,884.

ASPHALT—**St. Paul, Minn.**—City, 400 tons asphalt, to Standard Oil Co. of Indiana, 3rd and Commercial Sts., at $15.20 per ton. Noted Feb. 18.

PIPE—**Stillwater, Minn.**—City, 1,400 lin.ft. 6 in. c.i. main, to J. B. Clow & Sons, 640 McKnight Bldg., Minneapolis. Noted Feb. 25.

ROAD OIL—**Winona, Minn.**—Winona Co., A. Baeuerlen, aud., 175,000 gal. road oil, to Standard Oil Co. of Indiana, Front and Kansas Sts., Winona, at $0.0368 per gal. Noted Feb. 18.

RAILS—**New York, New Jersey and Pennsylvania**—See "Railways."

RAILS, etc.—**New York, N. Y.**—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., 30,000 tons rails, to Bethlehem Steel Corp., 25 Bway., to Inland Steel Corp., 38 South Dearborn St., Chicago, Ill., to Carnegie Steel Co., 71 Bway., to Illinois Steel Co., 71 Bway., and to Algoma Steel Co., Sault Ste. Marie., Ont. Railroad will immediately lay 20,000 tons rails bought under 1931 order. Noted Mar. 10.

PIPE, etc.—**Canton, O.**—Bd. Control, C. S. Bolender, serv. dir., 18,000 ft. copper bearing iron pipe, to Canton Supply Co., 201 Buckeye Pl. S. W., $2,969; 375 curb boxes and 1,200 fittings to Standard Santitary Mfg. Co., Bessemer Bldg., Pittsburgh, Pa., $537, and $194 respectively; brass materials, to Mueller Co., Decator, Ill. Grand total $3,828. Noted Feb. 18.

METERS—**Aberdeen, S. D.**—City Council, one 8 in. and one 12 in. main-line meter, three 2 in. water cart meters, 3 portable or semi-portable meters, to Hersey Mfg. Co., South Boston, Mass., and R. S. Sparling, Chicago, Ill. Noted Mar. 10.

PIPE—**Dallas, Tex.**—City, c/o E. Goforth, 12,000 ft. and 4,000 ft. 6 in. Class 150 De Lavaud pipe, to National Cast Iron Pipe Co., Santa Fe Bldg., $25,560.

EQUIPMENT

PROPOSED WORK

TRANSFORMERS, etc.—**Anderson, Ind.**—City purchasing additional transformers and auxiliary equipment for municipal light plant. $17,000.

PUMPS—**Jamestown, N. D.**—City, W. G. Joos, aud., purchasing 2 motor-driven pumps for Water Dpt.

BIDS ASKED

TAR HEATING KETTLES—**Indiana**—Apr. 5, by State Hy. Comn., Indianapolis, 40 to 50 tar heating kettles of oil burning type, incl. 25 to 30 of about 165 gal. and 15 to 20 of 300 gal. capacity. J. J. Brown, dir.

COAL ELEVATING SYSTEM, etc. — **Ft. Wayne, Ind.**—Apr. 12, by City, furnishing, installing coal elevating and distribution system, incl. tract hopper, 2 feeders, 2 elevators, shuttle belt conveyor, 3 automatic coal scales, 3 segregating speeders, 10 ton motor driven lorry, complete belt conveyor coal traveling coal crusher, complete shiftings soot and cinder handling system for city light and power plant. $60,000. Froelich & Emory, Toledo Trust Bldg., Toledo, O., engrs.

MAINTAINER—**Dakota City, Ia.**—Apr. 5, at office Auditor Humboldt Co., push type motor maintainer equipped with 16 ft. moundboard, dual pneumatic tires, closed cab, lights and powered with not less than 15-30 motor.

TRUCK—**Bemidji, Minn.**—Apr. 5, by A. J. Johnson, aud. Beltrami Co., one truck.

MOTOR PATROL—**Fairmont, Minn.**—Apr. 6, by W. M. Canfield, aud. Martin Co., motor patrol. C. N. Krosch, co. hy. engr.

TRACTOR, etc.—**Grand Rapids, Minn.**—Apr. 5, by T. Erskine, aud. Itasca Co., 1 crawler type tractor, 15-20 size and one or more 4,000-7,000 lb. patrol graders.

TRUCK — **Rochester, Minn.** — Apr. 5, by Olmstead Co. A. L. Glabe, aud., one truck 1-2 ton capacity.

POWER PATROL—**St. James, Minn.**—Apr. 12, by Watonwan Co., J. E. Setru, aud., 1 power patrol.

MOTOR PATROL—**Thief River Falls, Minn.**—Apr. 7, by Pennington Co. H. L. Fowler, aud., one motor patrol unit.

PATROL — **Wheaton, Minn.** — Apr. 6, by Traverse Co., 1 tractor power patrol.

GRADER—**Winona, Minn.**—Apr. 5, by A. Beauerlen, aud. Winona Co., one 12 ft. blade grader.

TANKS—**St. Louis, Mo.**—Apartment Realty Co., Hamilton and Easton Aves., in market three 1,500 gal. underground gasoline storage tanks.

TANKS—**St. Louis, Mo.**—Union Quarry & Constr. Co., Marcus and Natural Bridge Aves., in market three 1,000 gal. underground gasoline storage tanks.

TANKS — **St. Louis, Mo.** — Universal Brake Serv. Co., 2910 Olive St., in market three 1,000 gal. underground gasoline storage tanks.

GRADER—**South Sioux City, Neb.**—Apr. 22, by City Council, N. Miller, clk., 3,000 lb. blade grader.

LICENSE TAG STOCK—**Raleigh, N. C.**—Apr. 7, by Div. Purchase & Contract, A. S. Brower, dir., 200 tons license tag stock as required during year 1932, f.o.b. Raleigh, all transportation charges prepaid.

ROAD PATROLS—**Carrington, N. D.**—Apr. 6, by Foster Co., J. B. McWelthy, aud., one or more road patrols each to weigh not less than 1,700 lb. and to have 10 ft. blade.

TRUCKS—**Minot, N. D.**—Apr. 4, by City, G. A. Reishus, aud., 2 trucks for use in garbage collection.

POWER MAINTANER—**Minnewaukan, N. D.**—Apr. 4, by Benson Co., 1 power maintainer with 16 ft. blade.

MOTOR PATROL—**Milbank, S. D.**—Apr. 6, by S. R. Dahlberg, aud. Grant Co., 1 motor patrol (1 used motor patrol to be traded in as part payment).

TRUCK—**Pierre, S. D.**—Apr. 8, by City, J. H. Starkey, city aud., one new or used truck for park and cemetery work.

PUMP—**Sioux Falls, S. D.**—Apr. 7, by Bd. City Comrs., City Hall, furnishing, installing new pump and other additions to iron removal plant of city waterworks. Pillsbury Eng. Co., 2344 Nic Ave., Minneapolis, Minn., engrs.

SWITCHING EQUIPMENT, etc.—**Hamilton, Ont.**—Apr. 6, by A. Peebles, mayor, switching equipment, motors, starters, power transformers, cable feeders for $1,000,000 low lift pumping station.

CONTRACTS AWARDED

AMMONIA CONDENSER—**St. Louis, Mo.**—Bd. P. Serv., City Hall, furnishing, installing ammonia condenser at City Sanitarium Power Plant, to Crescent Eng. Co., 2652 Lafayette Ave., $1,926.

BOILER, etc. — **Nashville, Tenn.** — Bd. P. Wks., 1,000 hp. boiler for city electric power plant, to Babcock & Wilcox Co., 85 Liberty St., New York, $20,063; stoker, to Riley Stoker Corp., 9 Neponset St., Worcester, Mass., $8,798.

FOREIGN

Union Socialist Soviet Republics — Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, 36 single turbine flax mills and 4 hemp mills, White Russian Republic, by day labor and technical aid contracts.

U. S. S. R., Salara—Soviet Russia, c/o Amtorg Trading Corp., 2661 5th Ave., New York, kitchen and commissary to feed workers at metallurgical plant, by day labor.

Commercial Buildings

PROPOSED WORK

Calif., Redwood City—City of San Francisco and San Francisco Co., county jail at Sneath Ranch in San Mateo Co. $850,000. Bonds have been voted (but not sold) to finance construction. Architect not appointed. While the above work is located in San Mateo Co. the project is for the City and County of San Francisco.

Calif., Santa Barbara — Santa Barbara High School Dist. school, incl. classroom and cafeteria unit. $150,000. Architect not appointed.

Conn., Norwich—Norwich Free Academy, C. B. Palmer, pres., plans by Chandler & Palmer, 114 Thayer Bldg., and takes bids in April, 3 story, 65 x 200 ft. brick, steel commercial unit. $300,000. Noted Dec. 24.

Conn., Rocky Hill—State Veterans Home Comn., 165 Capital Ave., Hartford, receiving competitive plans veterans home. $250,000. Wynne & Hahn, 902 Chapel St., New Haven, engr. Blair & Merchant, Inc., 100 Crown St., New Haven, consult. engr. C. J. Malmfeldt, 15 Lewis St., Hartford, consult. archt. H. Robinson Buck, Inc., 650 Main St., Hartford, has been awarded contract for surveying site. Noted Dec. 24.

Del., Wilmington—City, Bd. Educ., H. B. Eaton, pres., City Hall, soon takes bids 2 story, basement, 200 x 300 ft., brick, rein.-con., steel, school, plain found., 36th nad Jefferson Sts. $375,000. E. W. Martin, Du Pont Bldg., archt. E. Powers, 1518 Locust St., Phila., Pa., engr. Noted Dec. 31.

Ill., Chicago—Century of Progress Administration Bldg., Grant Park, soon lets contract 3 story, general exhibition hall, modernistic design, metal and composition siding, steel frame, Leif Ericson Dr. and 16th St. $1,000,000. Harvey Wiley Corbett, 130 West 42nd St., New York, archt.

Ill., Chicago—Century of Progress Administration Bldg., Grand Park, soon lets contract agricultural building, metal and composition siding, steel frame, Leif Ericson Dr. $350,000. E. H. Bennett, 80 East Jackson Blvd., Chicago, and A. Brown, Jr., 251 Kearny St., San Francisco, Calif., archts. Noted Feb. 11.

Ill., Wilmette—Catholic Bishop of Chicago, 712 North Wabash Ave., St. Francis Xavier School addition, 9th St. $100,000-$200,000. Architect not appointed.

Ind., Bloomington—Indiana University plans by Granger & Bollenbacker, 333 North Michigan Ave., Chicago, Ill., brick, steel auditorium on campus. $150,000.

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Commercial Buildings (Continued)

Ind., Indianapolis — Bd. Agriculture plans by Kopf & Deery, 620 Indiana Pythian Bldg., brick, steel exhibition buildings for Indiana University at Fair grounds. $150,000.

Fla., Miami Beach—S. S. Kresge, c/o S. S. Kresge Co., 2727 2nd St., Detroit, Mich., acquired property Flamingo Waterway and Indian Creek, and plan commercial building. No immediate development planned.

Mich., Ann Arbor—Greek Orthodox Church, C. Macris, Ann Arbor, 2 story, basement, 66x142 ft., brick, rein.-con. church, plain found., North Main St. $150,000. Architect not appointed.

Mass., Amesbury—Town, Building Comn., and Town Clerk, Town Hall, hospital. $150,000. Architect not appointed.

Mass., Boston—Massachusetts College of Pharmacy, 179 Longwood Ave., soon lets contract 2 college additions, 1 and 3 story, basement, brick, plain founds., Longwood Ave. $150,000 or more. Kilham, Hopkins & Greeley, 9 Park St., archts.

Mass., Boston—City, Dpt. School Buildings, elementary school, Longfellow Dist., Roslindale, $150,000-$200,000; elementary school, 40 classrooms, Phillips Brooks Dist., Roxbury, to exceed $150,000; elementary school, Minot Dist., Dorchester, $150,000, all 2 story, basement, brick, stone. Architect not appointed.

Mass., Boston—North Station Theatre Co., c/o Boston & Maine Ry. Co., North Station, bids in April, 1 story, brick theatre, at end of concourse at North Station, Causeway St. $150,000. Funk & Wilcox, 26 Pemberton Sq., archts. Noted Feb. 25.

Mass., Easthampton—Notre Dame Parish, A. Buisson, pastor, 27 Pleasant St., plans by O. E. Nault, 48 Hamilton St., Worcester, 2 story, basement, brick parochial school and auditorium. $150,000 or more.

Mass., Gloucester—Addison Gilbert Hospital, 298 Washington St., soon lets contract, 3 story, basement, 65 x 78 ft. and 42 x 105 ft., brick, steel hospital addition, Washington St. $150,000. Phillips & Halloran, 191 Main St., archts. Noted Mar. 17.

Mass., Lunenburg—Town, E. W. Fish, chn. Com., 2 story, basement high school. $150,000-$200,000. Architect not appointed.

Mass., Milton—Milton Hospital & Convalescent Home, L. E. Coleman, supt., plans by Kendall, Taylor & Co., 142 Berkeley St., Boston, brick, steel hospital, Edge Hill Rd. $150,000.

Mass., South Harwich—H. Adams, c/o R. C. Cameron, mgr., 1011 Hyde Park Ave., Hyde Park, revised plans by F. H. Richenburg, 70 Augustus Ave., Roslindale, and takes bids in April, 1 story, 75 x 300 ft., 65 x 75 ft., 2 story wings each 40 x 140 ft., brick veneer, frame hospital, south sect. $150,000. Foundation awarded to Paul L. Eldridge Co., Inc., Dennisport, Mass. U. S. Govt. will use part. Noted Mar. 10.

Mo., Kansas City—Jackson Co., Court House, sketches 30 story, basement, court house and jail, 12th, 13th, Oak and Locust Sts. $2,500,000. E. F. Neild, Shreveport, La., consult. archt. Keene & Simpson, 1005 Land Bank Bldg., Wight & Wight, 400 1st Natl. Bank Bldg., and F. C. Gunn, 1108 Fidelity Life Bldg., assoc. archts. Noted Jan. 7.

Mo., St. Louis—Bd. Police Commissioners, 12th Blvd. and Clark Ave., 2 story, basement, brick, rein.-con., stone police station and adjoining garage, Lafayette and Preston Pl. $125,000-$150,000. Site purchased.

Neb., Omaha—Lutheran Hospital Assn., 1911 Deer Park Blvd., hospital, West Omaha. Site purchased. Architect not appointed.

N. H., Derry—Town, H. L. Grinnell, Jr., chn. School Bd., for Junior High School. $150,000 or more. Architect not appointed.

N. H., New London—Colby Jr. College, H. L. Sawyer, pres., plans by Wells & Hudson, Hanover, brick dormitory. $150,000.

N. J., Clifton—Clifton Lodge B.P.O.E., F. A. Latimer, exalted ruler, 725 Clifton Ave., rejected bids 2 story, basement, brick, steel home addition, Clifton Ave. $150,000. Lee & Hewitt, 15 North Market St., Paterson, archts. Owner will wait for more favorable financial condition before going ahead with project. Noted Oct. 1.

N. J., Long Branch — Monmouth Memorial Hospital, 3rd Ave., sketches by Krumbhoor Burnett & Co., Inc., archts. and engrs., 115 Bway., New York, internes' quarters, hospital, power house, and laundry, 3rd and Pavilion Aves. $150,000. **Maturity in June or later.** Noted Mar. 24.

N. J., Millington—Episcopal Diocese, H. V. Osborne, pres., 24 Commerce St., Newark, rebuilding 2 story, basement, brick, steel gymnasium and library building, at Boys Farm. $150,000. **Maturity soon.** Architect not appointed.

N. J., Newark—Washington Realty Co., 786 Broad St., sketches by F. Nobbe, 1630 Springfield Ave., Maplewood, and takes bids about May, Clinton Tavern, 2 story, basement, brick, steel, rein.-con., Clinton Ave. $150,000. P. Chris c/o owner, lessee.

N. J., Teaneck—St. Anastasia Roman Catholic Church, Robinson St., bids after Apr. 4, general contract 2 story, basement, brick, steel school and church, Teaneck Rd. $150,000. DePace & Juster, 151 West 45th St., New York, archts. Noted Jan. 28.

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N. J., West Orange — Jewish Center of Pleasantdale, Pleasant Valley Way, sketches by M. J. Nadel, Pleasant Valley Way, 2 story, basement, brick, steel Jewish temple, school, community house, Pleasant Valley Way. $150,000.

N. Y., New York—Bronx Maternity Hospital, Grand Concourse and 166th St., bids after Apr. 15, general contract hospital, Grand Concourse and 155th St. $400,000. B. H. Whinston, 6 East 46th St., archt. Noted Dec. 10.

N. Y., New York—Creditors Com., c/o F. A. Powdrell, 285 Madison Ave., altering and reconstructing or constructing new department store, 14th St. and 5th Ave. for James A. Hearn & Son. To exceed $150,000. **Maturity indefinite.**

N. Y., Oriskany—City plans by Bagg & Newkirk, U. G. & E. Bldg., Utica, Central Grade School, 2 and 3 story, 120 x 152 ft., brick, stone.

N. Y., St. Albans—F. Vitale, 7035 69th St., Glendale, plans by A. P. Sorise, Jr., St. Albans, store and apartment, Foch Blvd. and 221st St. $200,000.

N. Y., West New Brighton—B.P.O.E., 841 Amboy Rd., Oakwood, sketches by F. E. Wall, 576 Oakland Ave., West New Brighton, 2 story, basement, brick, steel club house, Amboy Rd., Oakwood. $150,000.

Okla., Atoka — State Bd. Affairs, Capitol Bldg., Oklahoma City, plans by Layton, Hicks & Forsythe, Braniff Bldg., Oklahoma City, improvements at State Penitentiary, near here, incl. 1 story, 60 x 175 ft., rein.-con., brick power house, $75,000; 2 story, 35 x 700 ft. brick cell house, plain found., $160,000; 1 story, basement, 70 x 200 ft. kitchen and mess hall, $160,000; 1 story, basement, 70 x 175 ft., laundry building, $50,000.

Pa., Uniontown—Second Methodist Congregation, C. E. Morris, building comr., plans by J. C. Fulton & Sons, Citizens T. & T. Bldg., 2 story, basement, brick, stone Sunday school, East Winona and Clark Sts. $150,000.

R. I., South Kingston (mail Kingston)—St. Francis Roman Catholic Parish, J. A. Rourke, pastor, Wakefield, sketches by A. J. Murphy, 25 Fenner St., Providence, 1 story, basement, brick, stone church, plain found., Wakefield Sect. $150,000 or more. Noted Jan. 21.

Vt., Bellows Falls—Bellows Falls Lodge 23-1-OOF, E. L. Walker, plans by C. H. Crandall, Randolf, brick, steel fraternity building and stores, plain found. $150,000.

Wis., Menasha—Bd. Educ., E. C. Pierce, chn., soon takes bids 2-4 story school. $150,000. Foeller & Schober, 310 Pine St., Green Bay, archts. Noted Jan. 7.

BIDS ASKED

Conn., Morris—Apr. 2, (extended date), by Town, W. Kirchberger, chn. Building Comn., 1 and 2 story, basement, brick, steel elementary school, town hall and jail, plain found. $150,000. G. A. Quick, 170 Kneeland St., New Haven, archt. Noted Nov. 26.

Conn., Waterbury—Grace Baptist Church, I. W. Reed, 55 Highland Ave., bids about Apr. 15, 1 story, basement, brick, stone church, plain found. Kinsbury and Brown Sts. $150,000 or more. E. J. Richmond, 174 Grand St., archt. Noted Feb. 5, 1931.

Ind., Boston — Apr. 20, by School Comrs., brick, steel stone high school. $150,000. Henkel & Hanson, Connersville, archts.

Kan., Wichita—Max Steinbuchel, 705 Faulkner Ave., bids about June 1, 1 and 7 story, basement, 60 x 100 ft., rein.-con., brick, terra cotta apartment. $150,000. T. Mason, Caldwell-Murdock Bldg., archt.

Mass., Cambridge—See "Contracts Awarded."

Mass., Norfolk—Apr. 12, by Commonwealth of Massachusetts, Dpt. Correction, State House, Boston, 3 story, basement, brick, stone hospital, plain found., State Prison Colony. $275,000. R. D. Kimball Co., 6 Beacon St., Boston, engrs. McLaughlin & Burr, 88 Tremont St., Boston, archts. Noted May 7.

Mass., Westboro—Apr. 1, by Commonwealth of Massachusetts, Dpt. Mental Diseases, State House, Boston, altering and constructing 2 story, basement, children's building addition, brick, plain found., at State Hospital. $150,000 or more.

N. J., Hackensack—Apr. 5, by Societa Santa Croce Camerina, and J. H. Liebau, archt., 238 Main St., taking bids 2 story, basement, brick, steel club house, South Main and Pink Sts. $150,000.

N. J., Newark—J. D. Scrocco, archt., 440 Central Ave., Orange, taking bids general contract 2 story, basement, brick, steel, rein.-con. church and rectory, Warwick and Lang Sts., for St. George Greek Catholic Church, G. K. Kandra, pastor, 89 Astor St. $150,000. Noted Mar. 24.

N. J., Ridgewood—See "Contracts Awarded."

N. J., South Orange—Bd. Educ., 19 Union St., East Orange, bids about Apr. 15, 2 story, basement, brick, steel addition to Clinton School, Essex Ave. Guilbert & Betelle, 20 Branford Pl., Newark, archts. $150,000.

N. J., Union City—Apr. 4, by St. Michael's Church, Passionist Monastery, E. Goggin, pastor, and Magginis & Walsh, archts., 100 Boylston St., Boston, Mass., general contract 1 story, basement, brick, steel church. $150,000 or more.

N. Y., Albany—Apr. 15, by F. H. Newman, chn. Building Com., Trinity Methodist Episcopal Church, 75 x 180 ft. church, concrete $450,000. J. H. Kingsley, Albany, archt. Oct. 8.

N. Y., New York—New Manhattan ments, Inc., 551 5th Ave., taking bids tion and foundations 2 story, 100 x apartment, 63 Henry St. Total est. $1,00 R. S. Pallenson, 551 5th Ave., archts. later on separate contracts. Noted M under "F. F. French Co."

R. I., Providence—Apr. 4, by St. Boromeo Roman Catholic Parish, and Fontaine, archt., 285 Main St., Woonsoc story, basement, brick, stone parochial school, plain found. $150,000 or more. Feb. 18.

R. I., Woonsocket—Apr. 7, by St. Vinc Paul Society, c/o J. F. Hogan, archt. Grosvenor Bldg., Providence, brick, steel home, Blackstone St. $150,000. Noted Ma

Tex., Longview—Apr. 7 (extended date Gregg Co., c/o W. R. Hughes, judge, 5 93 x 110 ft., rein.-con. brick, stone court and jail. $200,000. Voelcker & Dixon, Perkins-Snider Bldg., Wichita Falls, Noted Mar. 3.

Man., Winnipeg—A. Sinnott, archbishop, St. Mary's Ave., bids about Apr. 5, 2 story, 150 ft., brick, stone trimmed wing to St. P College. $150,000. A. Cubbidge, 808 Bldg., archt.

CONTRACTS AWARDED

Md., Salisbury—Smith & May, archts., timore Trust Bldg., Baltimore, high school dition, incl. 2 story, 72 x 102 ft. gymnas 39 x 157 ft. wing, 2 story, 40 x 55 ft. necting wing, brick, cut stone, hollow tile L. L. Chambers, 36th St. and Boland Ave., timore. Est. $150,000. This corrects report March 7 Daily under "Baltimore."

Mass., Cambridge — H. M. Goldenberg, Bway., 4 story, basement, 115 x 180 ft., brick steel apartment, plain found., Everett St., separate contracts. M. Waters, 24 School St., Boston, archt. Noted Feb. 18.

Mass., Sharon—L. Ovlinsky, Sharon, 4 story, basement, brick hotel, plain found., Lake Massapoag, to M. Slotnick, 333 Washington St., Boston. Est. $200,000. Noted Mar. 10.

Mass., Winchester — First Church Christ Scientist, altering and constructing 1 and story, basement, brick, stone church addition, plain found., to Tredernick-Billings Co., High St., Boston. Est. $150,000. Noted Mar.

N. J., Long Branch—Hollywood Beach Club, Ocean Ave., 1 and 2 story, basement, brick, steel club, Ocean and West End Aves., separate contracts. $150,000. H. B. Seymour, 612 Mc-Clellan Ave., archt. Masonry work awarded to Van Hall & Co., Inc., 120 North Bway.

N. J., Ridgewood—G. W. Bailey, Radburn, residential development, incl. groups dwellings, Ridgewood Park, separate contracts. $150,000. **Maturity later.**

N. Y., Tompkinsville—J. DeFayo, 330 East 139th St., New York, 3 story, basement, 120 x 190 ft., brick, steel store and apartment, Woodstock and Castleton Aves., separate contracts. $200,000. **Maturity indefinite.** E. K. Herzog, 6 East 45th St., New York, archt. Noted Feb. 11.

O., Cleveland—Cleveland Union Terminals Co., W. S. Hayden, pres., 1010 Terminal Tower, caisson work for substructure for foundation for new post office building, West 3rd and Prospect Sts., to Industrial Constr. Co., 308 Euclid Ave. Total est., $300,000. Noted Feb. 25.

O., Cleveland—West Side Masonic Temple Co., c/o J. Cox, pres., 2 story, stone, steel, concrete Masonic temple, to Gillmore-Carmichael-Olson Co., 4300 Euclid Ave. Est. $200,000. Noted Jan. 21.

Okla., Hobart—J. L. Curreathers, 6 story, basement, 50 x 140 ft., rein.-con. office and store building, plain found., 4th St., to Mc-Millan Constr. Co., Enid, $150,000.

S. C., Monck's Corner—Berkley County Hospital Assn., Inc., 1 and 2 story, basement, L-shaped, 258 x 50 x 166 ft. and 50 x 128 ft., rein.-con., structural steel, brick, hollow tile, to Dawson Eng. Co., Charleston. Work started. Noted Feb. 18.

Industrial Buildings

PROPOSED WORK

Calif., Chico—Chico Meat Co., Humboldt Rd., plans by C. Cole, 1st Natl. Bank Bldg., 1 story, basement, 40 x 180 ft. steel, rein.-con slaughter house, Humboldt Rd.

Calif., San Francisco—California Laundry & Supply Co., 399 7th St., completed plans 1 story, 100 x 100 ft., rein.-con. laundry, Richard St. S. S. Gorman, 465 California St., engr.

Calif., San Jose—Golden State Co. Ltd., 425 Battery St., San Francisco, sketches creamery plant, North 1st St. $40,000.

Conn., East Hartford (br. Hartford)—A. Mc-Clellan, 790 Tolland St., plans completed 1 story, 32 x 35 ft. and 25 x 25 ft. ice manufacturing

Industrial Buildings (Continued)

plant, brick, steel, Tolland St. $40,000. Private plans.

Conn., Meriden—City Garage, 71 Veteran St., plans by J. A. Novak, 192 South Colony St., Bus Terminal Building 1, 1 story, brick, concrete, steel, South Broad St. $40,000.

Mass., Somerville—M. Geragosian, 6 Prentice St., Watertown, 3 story, brick warehouse, Sewall Court. $40,000. Private plans.

Mo., St. Joseph—State Hy. Comn., Jefferson City, soon takes bids 1 and 2 story, rein.-con., brick, stone garage and office building, Hy. 71. $75,000.

N. J., Newark—P. C. Reilly, archt., 111 5th Ave., New York, formal bids after June 1, general contract 2 story, basement, 60 x 110 ft., brick, steel, stone laundry and power house, for Owner, c/o architect. $40,000. Noted Mar. 24.

N. J., Union City—West Hoboken Plumbing Supply, 40 Paterson Plank Rd., rebuilding storage and distribution plant, destroyed by fire. $40,000.

N. Y., Brooklyn—Epstein & Schoor, 4th Ave. and 3rd St., sketches by W. C. Lacerenza, 16 Court St., 40 x 100 ft. service garage, 4th Ave. and 3rd St.

N. Y., Brooklyn—Ojay Realty Corp., Kings Highway and West 13th St., bids in July, 2 story, 72 x 105 ft. gas station, service garage, Kings Highway and West 13th St. $50,000. H. J. Nurick, 830 Putnam Ave., archt. Noted Mar. 17.

N. Y., Middletown—J. M. Horton Ice Cream Co., 205 East 24th St., New York, ice cream plant. $40,000 or more. **Maturity indefinite.** Architect not appointed.

N. Y., New York—Critsenfer, Inc., c/o G. S. Delafield, 250 Park Ave., plans by P. Barnum, 162 East 37th St., 2 story storage and store, 73 Christopher St. $75,000.

N. Y., New York—Dpt. Hospitals, Municipal Bldg., bids after May 1, power house, soot collector house, Bellevue Hospital. $200,000. C. B. Meyers, 31 Union Sq., archt. This is preferred project on city construction program and funds are available.

N. Y., New York—Lawyers Mortgage Co., 345 8th Ave., plans by M. W. Del Gaudio, 545 5th Ave., altering 8 story, 50 x 86 ft. storage and apartment, 508 West 112th St. To exceed $40,000.

O., Cleveland—Sabin Machine Co., H. B. Sabin, pres., 6538 Carnegie Ave., plans by H. M. Morse Co., archts. and engrs., 736 Prospect Ave., 1 story, brick, steel, concrete factory addition, 6601 Cedar Ave. $40,000.

O., Piqua—City, c/o Commissioners, injunction suit settled, soon takes new bids municipal power plant, to incl. turbine generator, surface condenser, steam generating unit, boilers, exhaust fans, motors, etc., Diesel engine. $810,000. Burns & McDonnell Eng. Co., 406 Interstate Bldg., Kansas City, Mo., engrs. Noted Jan. 21.

Okla., Norman—J. T. Foster, 792 Asp St., sketches 1 story, part basement, 50 x 140 ft., brick, concrete cleaning plant. $40,000.

Okla., Oklahoma City—Sterling Milk Co., 316 North Wesetrn Ave., E. F. Comegys, mgr., final plans 2 story, basement, 80 x 100 ft. brick creamery, plain found., Western Ave. $60,000. Private plans.

Okla., Oklahoma City—Sterling Milk Co., 316 North Western Ave., E .F. Comegyes, mgr., final plans 2 story, basement ice cream factory, Western Ave. $100,000. Private plans.

Ore., Salem—Oregon Linen Mills, T. B. Kay, pres., factory enlargement to double plant capacity. $200,000 or more. Engineer not appointed.

Pa., Erie—Erie Casket Co., W. C. Kibler, pres., 1901 Sassafras St., plans by Meyers & Johnson, 821 Commerce Bldg., and takes bids about May, brick, steel factory, Sassafras St. $40,000. Meyer & Valentine, 300 Plymouth Bldg., Cleveland, O., engrs.

Pa., Masontown—Standard Oil Co. of Pennsylvania, Peoples Gas Bldg., Pittsburgh, bulk plant and river dock, probably includes pipe lines, stairways, on Monongahela River, near here. **Maturity soon.** W. E. Black, c/o owner, engr.

Pa., Rockview—State Dpt. Property & Supplies, Harrisburg, completed plans brick, steel coal bunkers, moving four 200 hp. boiler house from old location to new, 2 handfired, 2 equipped with stokers for coal or powdered fuel, also new steam tunnel to cell block, incl. brick stack, 175 ft. high with 7½ ft. inside bore, at State Penitentiary. $90,000. J. N. Chester Engineers, Clark Bldg., Pittsburgh, engrs.

S. C., Lancaster — Lancaster Cotton Mills, plans by Robert & Co., archts. and engrs., Bona Allen Bldg., Atlanta, Ga., 42 x 120 ft. textile mill addition. $40,000.

Tenn., Lawrenceburg—Local business interests, c/o J. H. Stribling, sketches shirt factory, brick, concrete, 40,000 sq.ft. floor space. Site to be selected. To exceed $40,000. **Maturity soon.** Architect not appointed. Salant & Salant, Inc., 56 Worth St., New York, lessee.

Tenn., Memphis — Sears, Roebuck & Co., North Parkway and Watkins St., 130 x 130 ft., brick, stucco enlargement of servicing facilities at retail and mail order plant, incl. 8 gasoline pumps, 3 hydraulic lifts for lubrication, sheltered space for tire servicing 15 cars, lubrication servicing 3 additional cars. North Cleveland and Autumn Aves.

Tex., Corpus Christi — J. Remonte, Corpus Christi, refrigerator manufacturing plant.

Tex., Houston — Continental Can Co., 1 Pershing Sq., New York, plans by Favrot & Livaudais, Hibernia Bldg., New Orleans, La., manufacturing plant. To exceed $40,000. Noted Jan. 28.

Tex., McAllen — W. K. Campbell, Wichita Falls, refinery plant to handle 400 bbl. crude daily, plan now to install for lubricating unit and later install cracking unit, also for building pipe line at once for transporting oil to Missouri-Pacific right-of-way. Private plans.

Utah, Salt Lake City—Utah Oil Refining Co., Newhouse Bldg., preliminary plans altering and constructing additions to refinery, incl. installing new type gasoline absorption plant and revision of refining equipment. $400,000. E. S. Holt, Salt Lake City, engr.

Vt., St. Johnsbury—Caledonian-Record Publishing Co., Inc., 107 Eastern Ave., plans completed by H. H. Owen, 3 North St., Concord, N. H., 1 story, basement, stone, steel publishing building, plain found., Eastern Ave. $40,000. Noted Aug. 12.

Alta., Edmonton—Van Valkenburg Aircraft Co. Ltd., E. Berg, pres., airplane manufacturing plant. $75,000.

B. C., New Westminster—Westminster Iron Wks., Ltd., plate shop, blacksmith shop and pattern shop, incl. machinery.

B. C., Prince Rupert—F. L. Buckley, promoter, 510 West Hastings St., Vancouver, et al., plant to produce bleached Swedish sulphite pulp, 200 ton d.c., using approximately 700,000 ft. logs daily.

B. C., Oliver—Oliver Co-operative Growers, plans by R. Pyons, Penticton, cold storage plant and addition to packing plant. $66,000.

Ontario—Eldorado Gold Mines Ltd., 319 Bay St., Toronto, plans by A. N. Pochon, c/o owners, radium extraction plant, incl. crushing, grinding and chemical equipment at deposits in Great Bear Lake region, establishing barge transportation between deposits and Athabaka Landing. To exceed $40,000.

Ont., London—T. Dexter & Son, Beaufort St., rebuilding flour mills, all elecrtical equipment. $150,000.

Que., Granby — Manhattan Mills Ltd., Taunton, Mass., soon lets general and separate contracts 1 story textile mills. To exceed $40,000.

BIDS ASKED

Ill., Chicago—Owner, c/o J. J. Jensen, archt., 1105 Lawrence Ave., bids about Mar. 30, 2 story, part basement, 54 x 151 ft., steel, rein.-con., brick garage, plain found. $40,000.

Ind., Ft. Wayne—See "Equipment."

Me., Portland—Cushman Baking Co., 107 Elm St., taking bids 2 story garage, brick, steel girders, plain found., Lancaster St. $40,000. Webster & Libby, 443 Congress St., archts.

Mass., South Boston—Boston Wharf Co., 259 Summer St., Boston, taking bids reconstructing 2 story, brick, concrete warehouse, plain found., 336 Congress St. H. B. Prescott, 259 Summer St., Boston, archt.

N. J., Little Falls—Little Falls Laundry Co., East Main St., and F. W. Wentoworth, archt., 140 Market St., Paterson, bids about June 1, general contract 2 story, basement, 140 x 280 ft., brick, steel garage, Main St. $175,000. O. E. Goldschmidt, 110 West 40th St., New York, mechanical engr.

N. M., Loving—See "Contracts Awarded."

N. Y., Brooklyn—See "Contracts Awarded."

N. Y., Brooklyn—Sondero & Schiffino, 426 4th St., bids about Aug. 1, 2 story service garage, 18th Ave. and Rutherford Pl. Burke & Olsen, 32 Court St., archts. Noted Mar. 17.

N. Y., New York—See "Contracts Awarded."

N. Y., New York—I. Kudroff, archt., 15 West 38th St., bids about Apr. 15, 1 story, 25 x 200 ft. storage, garage and marble works, 437 East 23rd St., for G. Trani, Inc., 413 East 23rd St.

N. Y., New York—W. Peat, 2436 Grand Concourse, 125 West 45th St., bids about May 1, separate contracts 2 story, basement, 100 x 150 ft. service garage, 416 West 204th St. To exceed $40,000. S. J. Kesler, 125 West 45th St., archt. and engr. Noted Mar. 3.

Pa., Broadheadsville — See "Contracts Awarded."

Pa., Erie—Apr. 4, by Hammermil Paper Co., East Lake Rd., H. Schatain, in charge, general contract, heating, ventilating, 1 story, 130 x 260 ft., rein.-con., brick factory, East Lake Rd. $100,000. Private plans.

R. I., Cranston—Service Battery Shop, 263 Bway., Providence, taking bids 1 story, brick, concrete, steel service station and showroom, plain found., Station St. $40,000. F. Chiaverini, 32 Bway., Providence, archts.

R. I., Providence—See "Contracts Awarded."

Tex., Orange—See "Contracts Awarded."

Ont., Port Arthur—Apr. 8, by H. A. Dixon, ch. engr. Canadian Natl. Rys., Winnipeg, Man., reconstructing Pier 2 and 60 x 640 ft. timber freight shed on existing pile found. $150,000.

CONTRACTS AWARDED

Conn., New Milford—S. B. Ferriss, 44 West St., 1 story, basement, ice manufacturing plant, brick, to Adams & Hansen, Housatonic Ave.; machinery, to York Ice Mchry. Co., 23 Whitney Ave., New Haven. Est. $40,000.

Ky., Louisville—American Suppliers, Inc., 8th and Breckenridge Sts., subsidiary of American Tobacco Co., two 1 story, 158 x 2,000 ft. steel, concrete warehouses, to Fisk-Carter Constr. Co., 8th and Breckenridge Sts. Est. $150,000.

Md., Baltimore — Joslyn Co., 9th St. and Chesapeake Ave., 1 story, 180 x 200 ft. storage and distribution plant, to G. O. Hansen, 123 North East Ave. Est. exceeds $40,000.

Mass., Northampton—Norwood Ice Co., A. F. Grant, in charge, Merrick Lane, 2 story, brick artificial ice plant addition, to Aquadro & Cerrutti, 33 Wilson Ave. Est. $40,000. Noted Feb. 25.

Mass., Quincy—Standard Oil Co. of New York, 31 St. James Ave., Boston, 1 story, 30 x 30 ft. and 1 story, 112 x 123 ft. garage, office, warehouse, pumphouse, docks, tank, dredging, etc., for same, to Bay State Dredging & Contg. Co., 62 Condor St., East Boston; grading, foundations, etc., to C. A. Crowley, 11 Reedsdale Rd., Milton. Total est. $1,000,000. Noted Mar. 24.

Mass., Watertown — H. L. Kennedy, archt. and engr., 80 Boylston St., Boston, 1 and 2 story, 40 x 150 ft. electrical maintenance plant, to Thibeau & Comeau, 4 Brattle St., Cambridge, for Owner, c/o architect. Est. $50,000. Noted Mar. 10.

N. M., Loving—U. S. Potash Co., 342 Madison Ave., New York, shops, refinery for potash deposit works, by separate contracts. To exceed $800,000.

N. Y., Brooklyn—J. Farrell, 101 3rd Ave., altering 3 story service garage, Bergen St. and 3rd Ave., day labor and separate contracts. **Maturity late in summer.** O. B. Olmgren, 8605 3rd Ave., archt. Noted Mar. 17.

N. Y., New York—Broad Washington Corp., 61 Bway., 2 story, storage, stockrooms, 3809 Bway., separate contracts. $40,000. A. F. Winter, c/o owner, archt. Noted Mar. 3.

N. Y., New York—J. Friedman & Co., lessee, 708 Bway., acquired 40,000 sq.ft. site and will alter, reconstruct and equip for clothing manufacturing plant, 115 5th Ave., separate contracts. To exceed $40,000.

N. Y., New York—Three Hundred Fifty West 40th Street Corp., 271 Madison Ave., 6 story storage building, 346 West 40th St., to Wallenstein Constr. Co., 271 Madison Ave. Est. $125,000. Contractor now taking bids on demolition, steel, concrete arches, plumbing and heating. Foundation work will be done by day labor. Noted Mar. 3.

N. Y., Wallkill—Commissioner Dpt. Correction, State Office Bldg., Albany, general contract garage and employees building addition, to T. C. Brown Co., 307 Union St., Schenectady, $85,645; heating, to H. Sand & Co., 158 Greene St., New York, $7,650; sanitary work, to P. J. Watson, 112 McClellan St., Schenectady, $7,093; electrical work, to Muirhead Eng. Co., 562 Bway., Albany, $2,875; refrigeration work, to Lorillard Refrigerating Co., 85 Grand St., Kingston, $8,952. Grand total $112,115. Noted Feb. 18, under "Unclassified."

Pa., Broadheadsville—National Portland Cement Co., Finance Bldg., Phila., A. P. Houser, Emaus, in charge, will build cement plant, power house and shops, separate contracts. $2,000,000. **Maturity indefinite.**

Pa., Edgley—Haenichen Eng. Co., archts. and engrs., 222 West Bway., Paterson, N. J., general contract 2 story, basement, 90 x 200 ft., brick, steel paper manufacturing plant, plain found., to F. G. Pittet Constr. Co., 9 Colt St., Paterson, N. J., for Paterson Parchment Paper Co., 33 8th St., Passaic, N. J. Est. $40,000. Noted Mar. 24.

Pa., Pittsburgh—L. P. Kimball, archt., Baltimore & Ohio Bldg., Baltimore, Md., 3 story, 84 x 292 ft., brick, steel, concrete warehouse, to Rust Constr. Co., Kopper Bldg. for Baltimore & Ohio R.R. Co., Baltimore & Ohio Bldg., Baltimore, Md., H. A. Lane, ch. engr. Est. $70,000. Noted Mar. 17.

Pa., Washington—Washington Tin Plate Co., c/o B. F. Brehl, vice pres., general contract 1 story, 50 x 110 ft., brick, tile, structural steel machine shop, Woodland Ave., to Washington Eng. & Constr. Co., Oakland and Pennsylvania Aves. Taking sub-bids.

R. I., Providence—H. Katz, 276 North Main St., 2 story, brick, steel manufacturing shop, 2 stores, plain found., North Main St., separate contracts. $40,000-$50,000. Barker & Turoff, 10 Weybosset St., archts. Noted Mar. 24.

Tex., Orange—Commercial Pulp & Paper Co., headed by S. M. Bump, Orange, purchased properties of Yellow Pine Paper Mill and will renovate and repair paper mill, incl. new equipment. **Own forces.** $75,000.

Tex., Texas City—Ludlow Sales Co., 80 Federal St., Boston, altering and reconditioning former Terminal Railway Co. building into warehouse and distribution plant, separate contracts awarded. To exceed $40,000.

Wash., Puyallup—Puyallup & Sumner Fruit Growers Assn., L. M. Hatch, pres., enlarging 1 story, 77 x 167 ft. warehouse cold storage plant, to S. R. Gray, Puyallup, $40,000.

Ont., Toronto—McQuay-Norris Mfg. Co., W. K. Norris, pres., 2300 Cooper St., St. Louis, Mo. (home office), and 37 Pearl St., 1 story, concrete, brick, steel, piston ring factory, Ray Ave. and Goddard, Ave., York Twp., to Austin Co. Ltd., 320 Bay St. Est. $50,000-$60,000. Noted Mar. 17.

See proposal advertising on page 60

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CONSTRUCTION NEWS

SECTION OF ENGINEERING NEWS-RECORD—APRIL 7, 1932

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WATERWORKS

PROPOSED WORK

Ark., Elaine—Elaine Utilities Co., c/o H. H. Thompson, 3891 Galloway Dr., Memphis, Tenn., preliminary plans new equipment for waterworks, light plant and telephone system. $30,000. Private plans.

Ark., Osceola—Osceola Light & Power Co., A. Blake, supt., installing 40,000 gal. water filter plant.

Calif., Palo Alto—City Council, 75,000 gal. rein.-con. reservoir. J. F. Byxbee, Jr., city engr.

Ia., Council Bluffs—City, S. L. Etnyre, supt. Waterworks Dpt., 14 Pearl St., laying 16 in. main from Bway. and 36th St. north to E or F Sts., then east to 17th St. $50,000. Noted Mar. 17.

Ia., Estherville—City, 300,000 gal. elevated water tank. $15,000. Site purchased.

Mass., Arlington—Town, Bd. Selectmen, extending watermains. $45,000 appropriated.

Miss., Charleston—Mayor and Bd. City Comrs. plans purchasing or erecting waterworks and electric power plants.

N. Y., Jamaica—Dpt. Water Supply, Gas & Electricity, Municipal Bldg., New York, requipment and additional equipment for water wells. Project awaiting consent of State Water Control Comn. to proceed.

O., Berea—City, water softening plant. $25,000. C. W. Root, Society for Savings Bldg., Cleveland, city engr.

O., Cleveland—Soon takes bids 1 m.g. steel plate water storage tank in Euclid, and one 2 m.g. steel plate water storage tank in Garfield Heights. $60,000.

O., East Cleveland—City, C. A. Carran, mgr., soon takes bids pump, motor, water, drainage line, concrete footings for water storage tank. M. Garnett, City Hall, engr. Noted Feb. 18.

O., Springfield—City, dam and reservoir, also constructing mechanical filtration plant. **Maturity indefinite.** R. E. Garvin, city mgr.

O., Youngstown—City, plans land purchase, $12,000 valve house buildings, $8,000; foundations for standpipe, $25,000; 2 m.g. standpipes, $80,000; pumps and motors, $30,000; one 500,000 gal. elevated tank, $35,000; water main, $175,000. $400,000 bond issue authorized. G. Turner, city engr.

Pa., Bedford—See "Contracts Awarded."

Pa., Greenwood—Home Water Supply Co., preliminary plans, surveys in progress, bids in May, 400,000 gal. rein.-con. reservoir to furnish water for city of Greenwood, incl. 6.5 mi. 2- to 6-in. steel pipe, for Brush Mountain near here. D. W. Dillman, Altoona Trust Bldg., Altoona, engr.

Va., Madison Heights—City Council waterworks and sewerage systems. $60,000 bond issue is expected to be authorized in connection with plans for proposed improvement. E. Bernard, Lynchburg, consult. engr., and R. Messer, ch. engr. State Bd. Health, Richmond, preparing plans.

Wyo., Powell—Town, preliminary plans installing supplemental pumping unit for town water supply, 50,000 gal. per day capacity. $4,000.

N. S., Truro—Council considering changing from steam pumping to electric pumping in connection with water supply.

Ont., Burlington — Town to float loan of $30,000 to provide waterworks extension. G. H. Power, engr. Noted Feb. 25.

Ont., West Lorne—Ratepayers voted by law authorizing construction of waterworks, incl. deep wells, electric pumps, c.i. distribution mains, hydrants, valves, etc., and 500,000 gal. standpipe. $75,000. Ontario Eng. Co., Fort Erie, engrs. Noted Mar. 31.

Que., Maniwaki—Town installing new waterworks. $26,000.

BIDS ASKED

Ia., Council Bluffs—See "Contracts Awarded."

Neb., Omaha — Apr. 11, by Metropolitan Utilities Dist., 18th and Harney Sts., adding 6 filter beds to present purification plant. Excavation completed. J. Detweiler, supt. Noted Mar. 31.

Pa., Bedford—See "Contracts Awarded."

Wis., Racine—Apr. 11, by Bd. Water Comrs., waterworks sub-station, incl. steel structure, supports, switches, all accessories. Alvord, Burdick & Howson, 20 North Wacker Dr., Chicago, Ill., engrs.

CONTRACTS AWARDED

Ark., Morrillton—Arkansas Power & Light Co., C. L. Waldron, mgr., deep wells for water supply and pumping equipment, to Layne-Arkansas Co., Stuttgart. Est. $20,000.

Colo., Pueblo—Trustees Pueblo Water Works, c/o D. P. Porter, 319 West 4th St., installing 1,200 ft. covered concrete flume, to Driscoll Constr. Co., 220 South Main St.

Colo., Trinidad—City Council, c/o F. R. Wood, mayor, authorized funds replacing 6,600 ft. 30 in. wooden pipe. Work will start soon, probably with day labor.

Ia., Council Bluffs — City Council, S. L. Etnyre, supt. Waterworks Dpt., 14 Pearl St., laying 8 in. mains from Grace St. to Franklin and Carson Aves. to Beach St., in Pierce, Bluff and Willow Sts. from Glen to Main Sts., 6 in. mains in 2nd Ave. from 36th to 37th Sts., 12 in. mains in 4th Ave., 15th and 21st Sts. from 2nd to 9th Aves., 16th St. from 9th Ave. to 15th St., by day labor. Furnishing 8 and 12 in. pipe, to American Cast Iron Pipe Co., 38 South Dearborn St., Chicago, Ill., and 6 in. pipe, to Glamorgan Cast Iron Pipe Co., Lynchburg, Va. Est. $30,000.

Ia., Estherville—City, c/o City Clerk, 300,000 gal. elevated water tank and tower, to Pittsburgh-Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, $11,500. Est. $15,000.

Kan., Anthony—City Council, 350 hp. boiler and superheater, to H. Vogt Mchy. Co., 1000 West Ormsby St., Louisville, Ky., $8,940; soot blowers, to J. F. Pritchard & Co., Dwight Bldg., Kansas City, Mo., $525; boiler meter, to Boiler Meter Co. Cleveland, O., $525; steel tank and tower, to Chicago Bridge & Iron Wks., 37 West Van Buren St., Chicago, Ill., $18,380. Grand total $28,370. Noted Mar. 24.

N. J., Paterson — Passaic Valley Water Comn., 156 Alison St., Stony Road Reservoir improvements, incl. furnishing labor, materials, equipment necessary to facing existing reservoir walls, constructing new concrete retaining wall, gate chambers, to Brooks Bros., 5 James St., $41,590. Est. $50,000. Noted Mar. 3.

N. J., West New York—Bd. Freeholders Hudson Co., Court House, Jersey City, concrete reservoir on Lever Bros. property, Hillside Rd. and Hudson River Turnpike, to J. Strada, 413 10th St., West New York. Est. $15,000. Noted Feb. 18.

N. Y., Albany—Bd. Water Supply, 490 ft. rein-con. tunnel, 8 ft. wide, 7 ft. high, at Loudonville Reservoir, to J. G. Finn & Son, North Blvd., $27,473.

N. Y., New York — Eighty-Four William Street Corp., 84 William St., tanks and tank tower, to J. Whitlock, c/o H. R. Allen, engr., 405 Lexington Ave., or 20 West 18th St. Est. $20,000. Noted Mar. 24.

O., Cincinnati—E. Lex, Jr., city purch. agt., City Hall, furnishing, installing one 10 m.g. and one 5 m.g. steam turbine driven centrifugal pumps at Western Hill Station in Queen City Ave. and furnishing, installing one 25 m.g. steam turbine driven centrifugal pump and appurtenances at 2445 Eastern Ave., to Worthington Pump & Mchy. Corp., 421 Worthington Ave., Harrison, N. J., $55,600 and $57,800 respectively. Noted Mar. 10, under "Equipment."

Pa., Bedford—City Council, 38,000 gal. earth dam, 11,000 ft. 8 in. c.i. pipe, day labor. Plans completed for Pigeon Creek Reservoir. Est. $100,000. Work underway. S. C. Hulse, Bedford, engr. Noted Dec. 7.

Pa., Pottsville—Pottsville Water Co., reservoir, concrete core, earth embankment dam, 1,700 ft. long, 60 ft. high on Frackville Rd., to Vang Constr. Co., Grant Bldg., Pittsburgh. Est. $150,000.

Ont., Stirling—Village, waterworks, Contr. B, c.i. pipe, to National Iron Corp., foot of Cherry St., Toronto, $8,371; Contr. C, hydrants, to Kerr Engine Co., Walkerville, $1,080; valves, to T. McAvity & Sons, Yonge St., Toronto, $371; Contr. D, standpipe, to Horton Steel Wks., Bridgeburg, $7,100; Contr. E, service materials, to Canada Brass Mfg. Co., Galt, $1,798. Grand total $18,720. Contr. A (general contract), not awarded yet. Total est. $30,000. Noted Mar. 10.

SEWERS

PROPOSED WORK

Del., Stanton—Community Assn. requested State Bd. Health to make survey of conditions at Stanton, and to get some idea what expense would be in connection with installing sewerage system.

Mass., Belmont—Town, Bd. Selectmen, sewer extensions and storm water drains. $40,000 and $20,000 appropriated.

Mass., Boston—City, Dpt. P. Wks., J. A. Rourke, comr., sewerage works. $1,000,000 appropriated.

Mass., Framingham — Town, Bd. Selectmen, sewerage works. $29,300 appropriated.

N. H., Hampton—Town, G. Ashworth, chn. Sewer Comn., new sewerage system, replacing 37 year old system, outlet into Hampton River, in Hampton Beach. $75,000.

O., Columbus—W. P. Helenkamp, dir. Serv., council adopted resolution to proceed connecting new intercepting sewer to pumping station, Frank Rd., incl. 100 ft. 60 in. rein.-con. and 200 ft. 48 in. vitr. clay pipe. $25,000. R. H. Simpson, City Hall, engr.

Va., Madison Heights.—See "Waterworks."

BIDS ASKED

N. Y., Brooklyn—Apr. 13, by H. Hesterberg, pres. Broklyn Boro, Boro Hall, sewers in Lenox Rd. and East 53rd St.; storm water and sanitary sewers in Delamere Pl.

N. Y., Long Island City—Apr. 11, by G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., sewer in Parsons Blvd., 71st Dr., Culloden Pl., 21st, 38th, 92nd, 104th, 107th, 121st, Hollis Aves., 21st, 100th, 219th, 155th, 190th, 174th, 212st, 216th, 195th Sts.

N. Y., New York—Apr. 14, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in Colden Ave. and West 253rd St.

N. Y., St. George—Apr. 13, by J. A. Lynch, pres. Richmond Boro, Boro Hall, temporary sanitary sewer in Ridgecrest Ave. and sanitary sewer in Hylan Blvd.

N. Y., Wingdale—Apr. 27, by Dpt. Mental Hygiene, State Office Bldg., Albany, sewers and water lines at Harlem Valley State Hospital. $236,963. F. W. Parsons, comr.; adv. E. N.-R. Apr. 7.

O., Columbus—Apr. 12, by W. P. Helenkamp, dir. Serv., completing contract, standby tanks on Whittier St., involving 17,000 cu.yd. excav., 12,200 cu.yd. rolled embankment, 3,700 cu.yd. placing top soil, 3,200 sq.yd. concrete paving, roofing, installing slush gates. Former contract rescinded. R. H. Simpson, City Hall, engr.

Ont., London—W. P. Near, city engr., bids about Apr. 11, sludge pumps, screen press and flume in connection with extensions to East End disposal plant. $46,000.

CONTRACTS AWARDED

Colo., Denver—Dpt. Impvts. & Parks, W. B. Lowry, mgr., constructing about 12 mi. main and sub-main sewers, manholes for storm drains in Park Hill Storm Sewer Dist., to Construction Service Inc. and Associates, 401 Tramway Bldg., $1,074,667. Noted Mar. 24.

Conn., Greenwich—Town, 3,000 ft. various sized concrete storm drains, catch basins, restoring pavement, concrete pipe and macadam paving, to A. W. Byrne & Son, Inc., 79 Linmore St., Hartford, $42,400.

Conn., Stonington — State, sewage disposal plant, vitr. tile sewer sludge beds, concrete tanks, etc., at Mystic Oral School, general contract to P. F. Sweeney Co., 25 Chestnut St., Norwich, $23,251. Est. $60,000. Noted Mar. 3.

D. C., Wash.—District Comrs., District Bldg., Weaver Pl. storm sewer and replacement sewer vicinity M St. and 6½ Pl., to P. and A. J. Ellis, Inc., 4th and Wyoming Sts., Phila., Pa., $32,665 and $8,622 respectively.

Ill., Chicago—Sanitary Dist. of Chicago, 910 South Michigan Ave., J. J. Sullivan, ch. engr., sludge filters and drying unit, 35 ft. diam., concrete tank, mechanical thickening machinery vacuum filters, etc., at Stickney, to M. J. Boyle & Co., 105 West Monroe St., $123,869. Noted Feb. 26.

N. Y., White Plains—Sewers and watermains in Thompson Ave., to Cestone Constr. Co., 50 DeKalb Ave., $2,636.

N. C., Charlotte—City and Clerk of City Comn., furnishing 22,000 ft. concrete pipe, to Carolina Concrete Pipe Co., Rozells Ferry Rd.; 3,200 ft. 4- to 8-in. c.i. sanitary sewer pipe and 124 ft. 10, 12 and 15 in. c.i. pipe, to Charlotte Pipe & Fdry Co., Commercial Bldg., constructing sewers by own forces. Est. $40,000.

See proposal advertising on page 80

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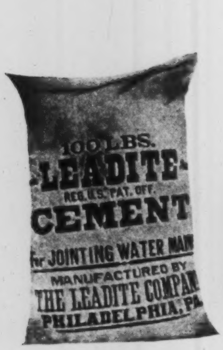
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No Caulking

Sewers (Continued)

Pa., Pittsburgh—See "Streets and Roads."

Ont., Islington — Etobicoke Twp., W. H. Walker, engr., 1¾ mi. 9 and 12 in. vitr. tile sewers in Humber Bay Sewer Area, to J. Formica & Co., 365 North Cliffe Blvd., Toronto. Est. $25,000.

Ont., Toronto—City, sewers in Sects. A. B and C, Don Improvement Roadway, to John Maguire Contg. Co., 24 Birch Ave., $6,340; Sects. B and D same roadway and in Union St., to J. Formica & Co., 365 Northcliffe Blvd., $15,800 and $3,925 respectively; lane near Brock Ave., to Mitchell Contg. Co., 105 Glenayre Ave., $545. Grand total $26,619.

WASTE DISPOSAL

PROPOSED WORK

Ont., Toronto—Preparing plans brick, concrete, steel refuse disposal plant on Symes Rd. $620,000. R. C. Harris, City Hall, engr. Noted Mar. 24.

BRIDGES

PROPOSED WORK

Calif., Petaluma—City Council, steel bascule bridge over river at D St.-Election to vote on $80,000 bonds to finance same.

Kan., Halstead — Bd. Supervs. Harvey Co., Newton, preliminary plans six 40 ft. span concrete bridge over Little Arkansas River northwest of here. J. A. Mavity, Court House, engr.

Mass., Arlington — Town, Bd. Selectmen, bridges, hys. $105,000 appropriated.

Mass., Boston — City, Dpt. P. Wks., J. A. Rourke, comr., new bridges and hys., $750,000; reconstructing bridges and hys., $500,000 respectively.

Mass., Brookline—Town, Bd. Selectmen, **votes** $491,650, bridges, roads.

Mass., Duxbury—Town, Bd. **Selectmen, votes** $25,000 sum bridges and hys.

Mass., Plymouth — Town, Bd. Selectmen, bridges and hys. $34,500 appropriated.

N. Y., Waterloo — Dpt. P. Wks., Albany, bridge over Barge Canal. $200,000. G. W. Finck, Syracuse, dist. engr.

Pa., Lawrence—Bd. Comrs. Volant Co., Court House, New Castle, surveys 2 steel, concrete bridges over Nashannock Creek and other over Mill Creek. $25,000. T. A. Gilkey, 408 Greer Bldg., New Castle, engr.

Texas—State Hy. Comn., W. R. Ely, chn., Austin, bids in May, bridge to have thirty-one 30 ft. 6 in. concrete deck girder spans, 22 ft. roadway, two 50 ft. steel I-beam spans, two 150 ft. steel truss spans, one 200 ft. steel truss span, over Guadalupe River, Hy. 9, Federal Aid Project 631-B, Kendall Co., $120,000—six 30 ft. 6 in. concrete deck grider, one 120 ft. steel truss span bridge, 22 ft. roadway, and over Blanco Creek, Hy. 3, Federal Aid Project 289—Re-opened, Uvalde Co., $40,000. Both projects withdrawn from Apr. 4th letting. Noted Mar. 24 and 31 under "Bids Asked."

BIDS ASKED

Ill., Shelbyville—Apr. 15, by Bd. Supervs. Shelby Co., I-beam bridge, 19 culverts, Sect. OB-M.F.T. G. H. Baker, c/o State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, engr. county roads.

Ind., Haysville—Apr. 12, by State Hy. Comn., Indianapolis, boring 8 test holes totaling 350 lin.ft. rock and earth borings for tile founds., for bridge over east fork White River, State Hy. 45, DuBois and Martin Counties, near here. J. J. Brown, dir.

Iowa—Apr. 12, by State Hy. Comn., Ames, 40 x 24 ft. I-beam, 120 x 20 ft. high truss with two 40 x 20 ft. I-beam approach spans, 14 culverts, extensions, Rd. 186 from Prescott south, F.A.B. 349 Adams Co.—three 36 x 24 ft. I-beam bridge, 80 x 20 ft. pony truss with two 32 x 20 ft. I-beam approach spans, 25 culverts, extensions Rd. 100 from Griswold cast, F.A.B. 341 Cass Co.

Maine—Apr. 12, by State Hy. Comn., Augusta, Meadow Brook Bridge, involving 194 cu.yd. concrete, and Orland River Bridge, 855 cu. yd. concrete, at Orland — Maguererewock Stream Bridge, 316 cu. ft. concrete, and Meduxnekeag Stream Bridge, 316 cu. yd. concrete, at Monticello—Main St. Bridge, 246 cu. yd. concrete, at Bucksport—superstructure and concrete portion, North Anson Bridge, 250,000 lb. steel, 1,346 cu. yd. concrete, at Anson.

Maryland—Apr. 18, by State Roads Comn., G. C. Uhl. chn., Baltimore, 2,200 ft. steel concrete bridge over South River on Camp Parole-Mt. Zion Rd., to have substructure of timber piling supporting cylinder piers, incl. steel swing span, providing channel opening 79 ft.. with all necessary operating equipment, operator's house and approaches, Contr. AA-117-77, Anne Arundel Co. H. Williar, Jr., Federal Reserve Bank Bldg., Baltimore, engr.; adv. E.N.-R. Apr. 7.

New York—See "Streets and Roads"

Ohio—Apr. 15, by O. W. Merrell, dir. hys., Columbus, 23 x 15 x 124 ft. rein.-con. box culvert, Sect. "A" Ohio River Rd., $15,485—two 75 ft. span concrete beam bridge, with steel beams, Sect. "B" same road, $22,504, both Adams Co.—30 ft. span concrete beam bridge, 24 ft. span, Sect. "R" Logan-Athens Rd., Athens Co., $9,537—36 ft. span beam bridge, 24 ft. roadway, Sect. "I" Greenville-Ft. Recovery Rd., Darke Co. $9,678—22 ft. span concrete slab top culvert, 46 ft. roadway approaches, Sect. "J" Cleveland-Sandusky Rd., Lorain Co. $25,529—two 75 ft. spans, concrete bridge with steel beams, 24 ft. roadway, Sect. "R" McConnelsville-Marietta Rd., Washington Co., $33,101—30 ft. span concrete beam bridge, 24 ft. roadway, Sect. "G" Piqua-Shelby Rd., Shelby Co., $13,012.

Oregon—See "Streets and Roads."

Pa., Millvale—See "Streets and Roads."

Pa., Volant—Apr. 15, by Bd. Comrs. Lawrence Co., c/o W. A. Eakin, New Castle, bridge to have two 79½ ft. steel plate girder spans incased in concrete, 18 ft. roadway, 4 ft. sidewalk over Neshannock Creek, 37 ft. rein.-con. bridge, 18 ft. roadway, repairing abutments with concrete over Mill Race. $25,000. T. A. Gilkey, 408 Greer Bldg., New Castle, engr.

Ont., Toronto—See "Contracts Awarded."

CONTRACTS AWARDED

Calif., Santa Rosa—G. Sanborn, clk. Sonoma Co., Geyserville Bridge over Russian River, 978 ft. long, incl. 100 ft. steel span with thirteen 24 ft. concrete pile trestles, 24 ft. roadway, to Healy-Tibbitts Co., 64 Pine St., San Francisco, $73,740. Noted Feb. 25.

Indiana—State Hy. Comn., Indianapolis, rein.-con. overhead crossing on Rd. 20 over Michigan Central R.R., Contr. 474, Porter Co., to E. F. Smith Co., 2050 South Harding St., Indianapolis, $92,579 est. $146,419—two 20 ft. span rein.-con. slab bridge, Rd. 14, Contr. 473, Fulton Co., to Elkart Bridge & Iron Co., Elkhart, $8,543 est. $12,562—2 span 35 ft. rein.-con arch bridge Rd. 21, Contr. 455, Wayne Co., to I. E. Smith Constr. Co., Richmond, $6,826 est. $10,855. Grand total $107,948. Noted Mar. 10.

Iowa—State Hy Comn., Ames, 70 x 20 ft. pony truss bridge with two 40 x 20 ft. I-beam approach spans, also raising and shifting 32 x 20 ft. pony truss span, Cass Co. and 50 x 20 ft. rein.-con. bridge, Polk Co., to Gilmore Co., 507 Sunderland Bldg., Omaha, Neb., $11,566 and $6,243 respectively — 90 x 20 ft. skew plate girder bridge, two 160 x 20 ft. span high truss bridge with twelve 50 x 20 ft. I-beam approach spans, three 40 x 24 ft. span I-beam bridge, Muscatine and Louisa Counties, to Des Moines Asphalt Paving Co., 2nd and New York Sts., Des Moines, $80,000—24 culverts, extensions, Cass Co., to C. W. Akin, Atlantic, $15,700—14 concrete pipe culverts, Muscatine and Louisa Counties, to L. Plumb, Wapello, $1,999—16 culverts, extensions, Polk Co., to C. W. Boltz, Des Moines, $5,795. Grand total $121,303. Noted Mar. 24.

Kansas—See "Streets and Roads."

Kansas—State Hy. Comn., Courthouse, Kingman **(P. Means Project and F.A.P. Federal Aid Project)** to Campbell Bros., 608 Manufacturers Exch. Bldg., Kansas City, Mo., Bridge 1, P-166-3 and 4, F.A.P. 356-J $3,974, Bridge 2 same project $1,371; Bridge 3 same project $5,128, all Cowley Co.—to E. W. King, Hesston, Bridge 1, P-50N-20, F.A.P. 241-H $24,092; Bridge 2 same project $2,705; Bridge 3 same project $2,113, Bridge 1, P-54-21, F.A.P. 341-I $1,510, all Kingman Co. Grand total $40,893. Noted Mar. 17 under "Streets and Roads."

Kansas—State Hy. Comn., Court House, Marysville, Bridge 1, Nemaha Co. and Bridge 3, Marshall Co., to Gray & Marbut, Emporia, $1,538 and $3,292 respectively—Bridge 1, Project 9-23, Federal Air Project 320-D and Bridge 1, Project 9-23, Federal Air Project 320, both Marshall Co., to S. B. Murphy, Centralia, $7,908 and $6,073 respectively—Bridge 2, Project 9-23, Federal Air Project 320-D Marshall Co., to J. H. Ludlow, Pittsburg, $17,155. Grand total $36,066. Noted Mar. 10, under "Streets and Roads."

Mass., Newbury — Comrs. Essex Co., Court House, Salem, reconstructing Plum Island Bridge over River on Turnpike from Newburyport, and bituminous macadam paving, to M. Solimando, 27 School St., Boston. Est. $25,000.

Pennsylvania—See "Streets and Roads."

Wis., De Pere—State Hy. and Unemployment Comns., Madison, substructure for De Pere Bridge, Brown Co., to C. R. Meyer & Sons Co., Oshkosh, $222,868. Noted Mar. 24.

Ont., Toronto—City, Bridge Dpt., maintenance on city bridges, incl. strengthening, surfacing floors, painting, repairing, floors, etc., day labor. $50,000. R. C. Harris, City Hall, engr.

STREETS AND ROADS

BIDS ASKED

California—Apr. 13, by C. H. Purcell, engr. State Hy. Comn., Sacramento, grading 7.6 mi. road between Papin Flat and Mariposa, Mariposa Co.—grading, concrete surfacing 6 mi. road between Avenue 74 and southerly boundary, Riverside Co.—bituminous crushed gravel or stone on crusher run base surfacing 14.2 mi. road between Bridgeport and Sonora Junction, Mono Co.

California — Apr. 13, by F. W. Hazelwood, dist. engr. State Hy. Comn., Redding, asphaltic road oil treating as dust palliative 22.5 mi. road between California-Oregon State line near New Pine and junction of Routes 28 and 73 near Alturas, Modoc Co. — 40.9 mi. between Nevada State line and point 2 mi. west of Milford, Lassen Co.—20.8 mi. near Shasta River and Walker Station—treating with fuel oil as dust palliative 36.4 mi. between Weed and state line near Calor, both Siskiyou Co.

Calif., Los Angeles—Apr. 13, by Bd. P. Wks., City Hall, grading, curbing, guttering, sewers, water system, 6 in. concrete paving 45,990 sq.ft. streets in Abington Avenue and Balmoral Avenue Impvt. Dist., to exceed $25,000; 56,000 sq.ft. Cedros Ave. between Parthenia St. and Roscoe Blvd., to exceed $25,000. Former bids rejected. J. J. Jessup, City Hall, engr.

Calif., Santa Rosa—Apr. 14, by G. P. Sanborn, clk. Sonoma Co., bituminous treated surfacing 1 mi. Washington St., incl. 60 bbl. light oil, 1,000 tons crushed rock, 65 tons cut-back asphalt—10 mi. 1st Supervisorial Dist., 400 tons cut-back asphalt, 2,000 tons mineral aggregate to be added—15 mi. same district, 900 bbl. light and 300 tons heavy oil, 3,700 tons rock—11.3 mi. 4th and 5th Supervisorial Dists., 675 bbl. light and 225 tons heavy oil, 3,150 tons rock — 10 mi. 2nd Supervisorial Dist., 600 bbl. light and 200 tons heavy oil, 2,800 tons rock—16 mi. same district, 960 bbl. light and 320 tons heavy oil, 4,500 tons rock—22 mi. 3rd Supervisorial Dist., 1,320 bbl. light and 440 tons heavy oil, 6,000 tons rock.

Idaho—Apr. 12, by G. E. McKelvey, comr. P. Wks., grading, crushed rock surfacing 10,500 cu.yd. Gooding-Fairfield Hy., Johnson Hill Sect., Camas Co.

Ill., Urbana — Apr. 11, by By. Supervs. Champaign Co., concrete surfacing 1.4545 mi. Sect. 86-15d; 6.2011 mi. Sect. 89-15d, both 9 ft. G. H. Baker, c/o State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, engr. county roads.

Indiana—State Hy. Comn., Indianapolis, will return (unopened) bids that were to have been opened Apr. 5, resurfacing 3.279 mi. State Rd. 41, Project 78-F, 20 ft., Sullivan Co.—4.279 mi. State Rd. 52, Project 120-B, 18 and 20 ft., Rd. 28, Project 172-B1 Madison Co., 20 ft. J. J. Rush Co.—5.173 mi. State Rd. 7, Project 163-C, 20 and 22 ft., Bartholemew Co.—3.901 mi. State Brown, dir. Noted Mar. 24.

Indiana—Apr. 11, by State Hy. Comn., Indianapolis, applying 38,000 gal. non-asphaltic road oil, 170,000 gal. road oil "A" and 231,000 gal. liquid asphalt CB or tar TM, and limited quantity placed in barrels on State Roads 26, 32, 34, 39, 59 and 63, Fowler, Covington, Terre Haute and Greencastle Sub-Dists.; 650,000 gal. Road Oil "A", 20,000 gal. liquid asphalt CB or tar TM placed in storage tanks on State Roads 50, 60, 64 and 150 in Spring Mill Park, Paoli and Vincennes Sub-Dists.; 50,000 gal. non-asphaltic, 430000 gal. Road Oil A and 326,000 gal. liquid asphalt AC, ACG, CB or tar, and limited quantity placed in storage tanks or barrels on State Roads 26, 32, 34, 38, 39, 47, 136 and 234, Crawfordsville and Frankfort Sub-Dists. J. J. Brown, dir.

Ind., Anderson — Apr. 15, by Bd. Comrs. Madison Co., constructing John D. Kiefer et al. Rd., Pipe Creek Twp. $14,219—A. E. Mills et al. Rd., Pipecreek Twp. $15,430—steel, concrete bridge over Pipecreek $12,331. A. A. Hupp, Anderson, co. aud.

Ind., New Albany — May 2, by Bd. Comrs. Floyd Co., grading, drainage structures, surfacing 20,192 ft. Old Corydon Rd. To exceed $25,000. C. F. Finch, New Albany, co. aud.

Iowa—Apr. 12, by State Hy. Comn., Ames, grading, drainage structures 3.21 mi. Rd. 186 out of Prescott south, Project F-349 Adams Co. 7.959 mi. Rd. 100 out of Griswold east, Project, F-341 Cass Co. C. R. Jones, aud.

Ia., Northwood—Apr. 12, at office Auditor Worth Co., grading 18 mi. trunk and local roads.

Kansas—State Hy. Comn., Courthouse, Marysville, **(P. means Project, K.P., Kansas Project and F.A.P., Federal Aid Project)**, rejected bids Mar. 18, bituminous materials surfacing 6.541 mi. P. 50N-30, F.A.P. 419-A—6.999 mi. same project, Sect. B, both Osage Co.—0.406 mi. P. 11-15, F.A.P. 430-A—0.56 mi. same project Sect. B—2.353 mi. P. 50N-29, F.A.P. 419-B—5.711 mi. same project Sect. F—0.094 mi. P. 50N-28, K.P. 1328—1.021 mi. P. 78-1, K.P. 1232, 11 mi. P. 50N-28, K.P. 7534, all Lyon Co.—sand gravel surfacing 5.273 mi. P. 73W-28, K.P. 7535—7 mi. P. 73W-30, K.P. 7537, both Atchison Co.—11.7 mi. P. 77-27, K.P. 7538—2 mi. P. 11-28, K.P. 7565, both Marshall Co.—15.7 mi. P. 20-2, K.P. 7540—8 mi. P. 36-36, K.P. 7571, both Doniphan Co.—5 mi. P. 20-1, K.P. 7542—12.55 mi. P. 73-35, K.P. 7572, both Brown Co.—4.55 mi. P. 24-8, K.P. 7569—3.65 mi P. 24-7, K.P. 7570, both Jackson Co.—11.7 mi. P. 36-30, K.P. 7580, Nemaha Co. W. V. Buck, Topeka, hy. engr. Noted Mar. 10.

Maryland—Apr. 12, by State Roads Comn., G. C. Uhl, chn., Baltimore, concrete paving 0.61 mi. Contr. B-240-711, Baltimore Co.—1.29 mi. Contr. Cl-93-52, Carroll Co.—3.52 mi. Contr. Q-76-24, Queen Anne's Co—0.88 mi. Contr. Wo-117-12 Worcester Co. — macadam paving 1.29 mi. Contr. Ho-111-34, Howard Co. H. Williar, Jr., Federal Reserve Bank Bldg., Baltimore, engr.; adv. E. N.-R. Apr. 7.

Md., Baltimore—Apr. 13, by Bd. Awards, grading, curbing, concrete paving 10,100 sq.yd. streets listed in Contr. 615. G. Cobb, Municipal Bldg., hys. engr.

Mass., Boston—Apr. 15, by Park Dpt., 33 Beacon St., replacing defective concrete blocks of walks in Boston Common.

Mass., Everett — Apr. 14, by Metropolitan Dist. Comn., 20 Somerset St., Boston, widening Revere Beach Parkway from Fellsway to Saugus Branch Bridge, incl. 1,600 cu.yd. earth **excav.**, 4,300 cu.yd. ordinary borrow, 800 cu.yd. gravel borrow, 1,000 cu.yd. loam borrow, 1,000 cu.yd. loam excavated and placed, 1,700 tons broken stone, 12,000 gal. bituminous material, 4500 lin.ft. fence removed and reset. D. A. Ambrose, c/o owner, assoc. civil engr.

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Streets and Roads (Continued)

Michigan—Apr. 12, by A. L. Burridge, div. engr., Cadillac, grading, shaping, drainage, 2 course gravel surfacing 6.124 mi. FO51-7C-3, Manistee Co., for State Hy. Comn., Lansing.

Michigan—Apr. 13, by W. J. Kingscott, div. engr., 309 McNair Bldg., Kalamazoo, grading, necessary drainage structures 0.651 mi. FO78-21C-1, St. Joseph Co., for State Hy. Comn., Lansing.

Minn., St. Paul—Apr. 12, by C. A. Carlson, city purch. agt., grading, paving Pleasant Ave. and southerly part of 8th St. $53,500. W. N. Carey, city engr.

Mo., Kirkwood—Bids in spring or summer, grading, curbing, concrete paving 1.5 mi. Adams Ave. west from Geyer to Ballas Rds., 20 ft. J. N. Wilson, City Hall, engr.

Mo., St. Louis—Apr. 26, by Bd. P. Serv., 208 City Hall, asphaltic concrete paving 1,200 sq. yd. Magnolia Ave. $3,400—1,550 sq.yd. Putnam St. $4,200—3,500 sq.yd. Catalan St. $11,320—3,800 sq.yd. Macklind St. $12,240—asphalt paving 3,000 sq.yd. Madison St. $9,360—15,000 sq.yd. Macklind St. $48,120—warrenite bitulithic paving 865 sq.yd. 11th St. $6,720. W. W. Horner, city engr.

New York—A. W. Brandt, comr. Hys., Albany, rejected bids Mar. 15, improving roads and bridges Erie Co. Noted Mar. 3.

New York—Apr. 26, by A. W. Brandt, comr. Hys., Albany, concrete paving highway in Sullivan Co.—constructing grade crossing Yates Co.—reconstructing bridges in Clinton, Erie, Niagara Counties; adv. E. N.-R. Apr. 7.

N. Y., New York—Apr. 14, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., curbing, sidewalks on Cannon Pl. and Blackrock Ave.; sidewalks various parts Bronx Boro.

N. Y., St. George—Apr. 13, by J. A. Lynch, pres. Richmond Boro, Boro Hall, grading, curbing, brick, guttering, Orange Ave. — grading, bituminous macadam paving Winant St.—concrete sidewalks on Oder Ave.

Ohio—Apr. 15, by O. W. Merrell, dir. hys., Columbus, gravel, slag or limestone paving 1.022 mi. Sect. "A" and "B" Ohio River Rd., $18,536—traffic bound macadam paving 1.258 mi. Sect. "A" same road, $25,942, both in Adams Co.—concrete and bituminous macadam paving 2.331 mi. Sect. "Ashland" Ashland-Loudonville Rd., Ashland Co., $63,224—brick paving 2.564 mi. Sect. "R" Logan-Athens Rd., Athens Co., $87,669—0.74 mi. Sects. "R" and "Corning North" Athens-New Lexington Rd., Perry Co., $44,598—brick paving except furnishing and delivering brick 2.015 mi. Sects. "J" and "K" Logan-Athens Rd., Hocking Co., $75,191, furnishing and delivering brick, $25,451—brick paving 5.436 mi. Sects. "U" and "V" Massillon-Canal Dover Rd., Stark Co., $208,374; furnishing and delivering brick, $60,422—brick paving 0.488 mi. Sects. "B" and "C" Canton-Navarre Rd., Stark Co., $24,399, furnishing and delivering brick, $5,311—brick paving 4.066 mi. Sects. "F" and "G" Cleveland-Massillon Rd., Summit Co., $192,694, furnishing and delivering brick, $76,396—brick paving 0.98 mi. Sect. "A" Millersburg-Wooster Rd., and part of Sect. "Q" Wooster-Dover Rd., Wayne Co., $39,128, furnishing and delivering brick, $14,218—concrete paving 6.71 mi. Sects. "G-1," "G-2" and "St. Paris," Piqua-Urbana Rd., Champaign Co., $156,853—1.289 mi. Sect. "Hanoverton" Lisbon-Canton-Southern Rd., Columbiana Co., $33,397—5.508 mi. Sect. "F" Hicksville-Edon Rd., Defiance Co., $125,614—2.903 mi. Sect. "G" Piqua-Sidney Rd., Shelby Co., $73,088 — 1.02 mi. Sect. "Wilkesville" Pomeroy-Jackson Rd., Vinton Co., $39,942 — 2.989 mi. Sect. "B" Jackson-Piketon Rd., Jackson Co., $79,299—2.217 mi. Sects. "B" and "G" Newark-Coshocton Rd., Licking Co., $74,637 — 1.109 mi. Sect. "J" Cleveland-Sandusky Rd., Lorain Co., $59,343—9.088 mi. Sect. "McConnelsville" McConnelsville - Marietta Rd., Morgan Co., $347,605 — 4.375 mi. Sect. "Beverly" McConnelsville-Marietta Rd., Washington Co., $151,071—3.291 mi. Sects. "C-1" and "C-2" Paulding-Bryan Rd., Paulding Co., $75,600—3.919 mi. Sect. "H" Twinsburg-Warren Rd., Summit Co., $82,190—bitulithic concrete paving 8.473 mi. Sects. "C" and "D" Cincinnati-Chillicothe Rd., Clinton Co., $123,697 — 2.491 mi. Sect. "A" Chagrin Falls-Cuyahoga Falls Rd., Cuyahoga Co., $56,708—4.711 mi. Sects. "P" and "Q" Cleveland-Wooster Rd., Medina Co., $186,568 — tar macadam paving 6.187 mi. Sects. "P" and "Q" Roundhead-Ada Rd., Hancock Co., $87,938 — 5.327 mi. Sect "F" Marion-Kenton Rd., Marion Co., $86,902—3.713 mi. Sect. "J" Cleveland-East Liverpool Rd., Summit Co., $37,153—rein.-con. or bitulithic concrete paving 3.33 mi. Sect. "Willowick" Willowick-Willoughby Rd., Lake Co., $136,111—bituminous macadam paving 1.506 mi. Sect. "G" Cincinnati-Zanesville Rd., Pickaway Co., $20,770—aggregate paving 2.59 mi. Sects. "F" and "Beach City" Brewster-Shanesville Rd., Stark Co., $43,934—paving 1.338 mi. Sect. "C" Toledo-Ann Arbor Rd., Lucas Co., brick $149,164, bituminous macadam $139,293, or rein.-con. $105,445.

Pennsylvania—Apr. 22, by State Hy. Dpt., Harrisburg, grading, drainage structures, shoulders, bridges, bituminous surface treated macadam surface course surfacing 22,862 sq.yd. Route 260, Rural Route 02146, O'Hara Twp., Allegheny Co.—grading, drainage structures, shoulders, bridges, bituminous surface treated macadam on modified broken stone surfacing 31,194 sq.yd. Route 248, Sect. 1, Framington and Washington Twps., Clarion Co. — 87,665 sq.yd. Route 248, Sect. 3, Eldred and Barnett Twps., Jefferson Co.—grading, drainage structures, bridges, bituminous surface treated macadam surface course with or without broken stone base, or one course rein.-con. surfacing 12,193 sq.yd. incl. two 62 1.2 ft. span through plate girder bridge, 23 ft. roadway over Chest Creek, Route 221, Sect. 3-A Westover Boro, Chest Twp., Clearfield Co.—69,159 sq.yd. Route 366, Sect. 6, Ohiopyle Boro, Springfield and Stewart Twps., Fayette Co.—grading, drainage structures, bridges, one course rein.-con. surfacing 56,905 sq.yd. Route 251, Sect. 4, Fairview, Bradys Bend and Sugar Creek Twps., Butler and Armstrong Counties—13,076 sq.yd. Route 88, Sect. 4, Corry City—53,954 sq.yd. Route 709, Sect. 1, Lebouef and Union Twps., Millvale Boro, both Erie Co. S. S. Lewis, secy.; adv. E.N.-R. Apr. 7.

Pa., Millvale—Apr. 12, by R. G. Woodside, controller Allegheny Co., City-County Bldg., Pittsburgh, brick on 8 in. concrete paving 970 ft. Evergreen Ave., 36 ft. wide, also rein.-con. bridge, rigid frame type over Girtys Run, 1,800 cu.yd. concrete in abutments. $47,000. E. L. Schmidt, City-County Bldg., Pittsburgh, engr.

Pa., Pittsburgh—City Council bids about Apr. 29, concrete surfacing and bridges on Mt. Washington Blvd. from Liberty Tubes to South 10th St. $650,000. C. M. Reppert, City-County Bldg., engr.

Tex., La Porte—City taking bids grading, 10 in. rock base, topping, guttering, curbing, alternate types paving 8 blocks in business section, 30 ft. $35,000. Address F. Ruff, city secy.

Virginia—Apr. 12, by State Hy. Comn., Richmond, concrete patching 14,500 sq.yd. 3 hys. in vicinity of Norfolk and Virginia Beach.

Washington—Apr. 12, by S. J. Humes, dir. state Hys., Olympia, bituminous macadam paving 23.5 mi. State Rd. 5, Oak Flat to Carmack Bridge and Morse Creek to Crystal Creek, Yakima and Pierce Counties, 19.5 mi. State Rd. 8, Upper Crossing of Satus Creek, south city limits of Goldendale, Klickitat Co.

Wash., Chehalis—Apr. 18, by Comrs. Lewis Co., extending 3.365 mi. Henry McAlney Rd., $28,000; constructing, incl. heavy solid rock work 1.08 mi. Bear Canyon-Morton Project, $27,000. R. L. Greene, Chehalis, co. engr.

Wash., Davenport—Apr. 12, by Lincoln Co., grading, crushed stone paving 8,045 cu.yd. Lateral Hy. 7, Harrington West Rd.; hauling 7,000 cu.yd. crushed rock from county crushing plant for distribution on 8 mi. Bluestem-Edwall Rd.

West Virginia — Apr. 12, by State Roads Comn., Charleston, grading, gravel surfacing 0.15 mi. approaches to Guano Creek Culvert, Project 2163-A Putnam Co. G. E. White, secy.

Wisconsin—Apr. 12, by Comrs. Dane Co., Madison, graveling 1.5 mi. C.G.M. County Trunk "Y" from U. S. 12, east through Roxbury—0.5 mi. C.G.M. 217-Sect. A, County Trunk "P," and 1.5 mi. County Trunk "K" from "P" east through Marxville—1.5 mi. Sect. B same road, etc.—1.7 mi. C.G.M. 218, County Trunk "F," all foregoing Combination 1 — 5.5 mi. C.G.M. 219, County Trunk "P"—7 mi. C.G.M. 227-Sect. A on County Trunk "S," etc., Combination 2—4.5 mi. C.G.M. 214, County Trunk "E"—3 mi. C.G.M. Sect. A on County Trunk V, etc., Combination 3—0.5 mi. C.G.M. 210, Sect. A, County Trunk "B"—4 mi. C.G.M. 210, Sect. C, County Trunk "B"—1.5 mi. C.G.M. 213, County Trunk "B"—3 mi. C.G.M. 212, County Trunk "B-N," Combination 4—6 mi. C.G.M. 208, County Trunk A—3 mi. C.G.M. 209, County Trunk "A"—3 mi. C.G.M. 211, Sect. A, County Trunk "N"—6.5 mi. same road, Sect. B.

Ont., Owen Sound—See "Contracts Awarded."

Ont., St. Catharines — See "Contracts Awarded."

Ont., St. Thomas—See "Contracts Awarded."

CONTRACTS AWARDED

Ark., Mena—City Council, D. E. Dodd, secy., grading, curbing, guttering, sewers, culverts, sidewalks, headwalls, storm sewers, 6 in. concrete paving 12,665 sq.yd. Paving Impvt. Dist. 7, to Phoenix Constr. Co., Ft. Smith, $29,352.

Indiana — State Hy. Comn., Indianapolis, grading, drainage structures 8.496 mi. Rd. 50, Federal Aid Project 145-A, Lawrence and Marion Counties, to Central Constr. Co., Orleans, $119,660. Est. $187,698. Noted Feb. 18.

Kansas—State Hy. Comn., Wellingtan (**P. means Project and F.A.P., Federal Air Project**), to List & Clark Constr. Co., Kansas City, Mo., grading, drainage structures, culverts 4.809 mi. P-55-1, F.A.P. 235-B $20,136, 1.988 mi. P. 15-5, F.A.P. 235-C $6,852—to Cook & Waddell, Ottawa, Bridge 1, P. 55-1, F.A.P. 235-B, $1,475, Bridge 1, P. 15-5, F.A.P. 235-C $1,326, Bridge 2 same project $3,579, all Sumner Co. Grand total $33,368. Noted Mar. 17.

Kansas—State Hy. Comn., Courthouse, Kingman (**P. means Project, K. P., Kansas Project and F.A.P., Federal Aid Project**) to A. G. Sherwood Constr. Co., Independence, grading, drainage structures, culverts 7.513 mi. P. 166-3 and 4, F.A.P. 356-J Cowley Co. $61,682—to J. J. Thompson, Omaha, Neb., 12.003 mi. P. 54-20, F.A.P. 341-H Kingman Co. $48,334—to Cook & Waddel, Ottawa, 3.757 mi. P. 54-21, F.A.P. 341-I Kingman Co. $12,222—to E. Graff, Newton, 0.55 mi. Harvey Co. $1,822—to W. A. Ross Constr. Co., Northwest 25th and Summit Sts., Kansas City, Mo., bituminous material surfacing 7.754 mi. P. 166-3, F.A.P. 356-H $14,120, 3.289 mi. same Project Sect. E $5,750, 8.163 mi. same Project Sect. I $16,828, all Cowley Co.—to Yant Constr. Co., 905 Omaha Natl. Bank Bldg., Omaha, Neb., 3.639 mi. P. 54-11, F.A.P. 275-A $7,667, 4.665 mi. P. 54-16, F.A.P. 305-A $9,754, 2.14 mi. P. 54-15 K.P. 1250 $4,504, 9.3 mi. P. 54-14, K.P. 1323 $19,445, 10.176 mi. P. 54-16, F.A.P. 305-C $21,504, all Kiowa Co.—to J. H. Shears Sons, Hutchi 7.233 mi. P. 77-9, F.A.P. 240-B, $16,310, mi. P. 96-25, F.A.P. 396-A $7,086; 12,157 P. 96-25, F.A.P. 396-B $29,114; 10.776 mi. P. 77-8, F.A.P. 240-A $21,732; 2.629 mi. P. 96 K.P. 1322 $5,748, all Butler Co.—to J. S. Mc Laughlin & Sons, 510 Insurance Exch. B Des Moines, Ia., 9.081 mi. Barton Co. $13 12.409 mi. Rice Co. $19,592—to Cook & St Ottawa, 11.953 mi. Comanche Co. $19,774 Brosnahan Bros., 218 City Bank Bldg., Kansas City, Mo., concrete surfacing, using crushed stone or gravel and fine aggregate 3.5 mi. P. 50S-24, F.A.P. 357-C $71,192; 0.424 mi. P-50S-24, F.A.P. 357-D $8,769, both Harvey Co. Grand total $436,447. Noted Mar. 17.

Kansas — State Hy. Comn., Court House, Marysville, (**P. means Project, F.A.P., Federal Aid Project, and K.P., Kansas Project**) to Thogmartin Reis Constr. Co., Ft. Scott, mineral aggregate surfacing 1.345 mi. P. 31-4, K.P. 1182 $1,950, 5.703 mi. P. 50N-31, K.P. 1183 $8,267; 3 mi. P. 50N-32, K.P. 11.84 $4,347, all Osage Co.—to W. D. Shay, McPherson, sand gravel surfacing 6 mi. P. 73W-29, K.P. 7536 Atchison Co. $3,576—to Cook & Cone, Ottawa, 1 mi. P. D50-44, K.P. 7541 Johnson Co. $660—to D. H. Hansen, Logan, 14.9 mi. P. 77-20, K.P. 7564 Riley Co. $5,185—to B. Metzger, Ozawkie, 6.65 mi. P. 4-28, KP. 7567 $3,60; 4.11 mi. P. 4-27, K.P. 7568 $5,346, both Jefferson Co.—to Collins Constr. Co., Leavenworth, crushed rock surfacing 3 mi. P. 74-1, K.P. 7536, Atchison Co. $807—to Gray & Marbut, Emporia, grading, drainage structure, culverts. 8.212 mi. P. 11-20, F.A.P. 243-D Wabaunsee Co. $53,172; 5.718 mi. P-9-24A, F.A.P. 320-C, $29,641; 6.569 mi. P. 9-23, F.A.P. 320-D, $39,619; 2.934 mi. P. 9-23, F.A.P. 320-E $15,332; 1.11 mi. P. 9-22A, F.A.P. 320-F $3,695; 0.544 mi. P. 9-23, K.P. 1307, $2,478, all Marshall Co. Grand total $177,679. Noted Mar. 10.

Maine—State Hy. Comn., Augusta, graveling 8.21 mi. Project 132-B, Baileyville, Baring and Calais, to Tucker Constr. Co., Inc., Bristol, N. H., $99,269—bituminous macadam paving 5.91 mi. Project 92-H, Presque Isle, to Ricci & Ricci, 189 Pocasset Ave., Providence, R. I., $148,731—3.75 mi. Project 80-D, Oxford, and concrete paving 1.27 mi. Project 101-D, Kennebunk, to J. F. Rooney & Co., Milford, Mass., $81,329 and $31,406 respectively. Grand total $373,435. Noted Mar. 10.

Michigan—A. L. Burridge, div. engr., Cadillac, grading, drainage structures, 3.731 mi. FO67-31C-1 and FO67-27C-1, both Osceola Co., for State Hy. Comn., Lansing, to T. McNally, Saginaw, $21,175 and $26,797 respectively. Noted Feb. 25.

New Jersey—State Hy. Dpt., Trenton, improving 3 mi. Newark-Jersey City Viaduct, Hudson and Essex Counties, to Fredburn Constr. Co., 60 East 42nd St., New York, N. Y., $881,054. Noted Feb. 26.

New York—A. W. Brandt, comr. Hys., Albany, grading, structures 0.6 mi. Grand Central Parkway, incl. grades at Winchester Blvd., Queens Co., to Kaufman Bros, Inc., 109 3rd Ave., Bay Shore, $88,989 est. $132,989; repairing Bridge 5, Green Co., to R. P. Francisco, West New Brighton, $6,894 est. $10,487. Noted Mar. 3.

Ohio—O. W. Merrell, dir. hys., Columbus, grading, draining, brick widening 3.74 mi. Ashland Co., to R. W. Rankin, Ashland, $97,367—brick and bituminous macadam paving 0.528 mi. Stark Co., to General Asphalt Paving Co., Witters Bldg., Canton, $28,511—grading, draining, bituminous macadam widening 1.501 mi. Sect. "J" Mansfield-Galion Rd., Crawford Co., to H. Candel, Bucyrus, $15,440—0.727 mi. Sect. "A" Galion-Mt. Gilead Rd., Crawford Co., and bituminous macadam paving 0.346 mi. Richland Co., to Mansfield Asphalt Paving Co., Mansfield, $9,736 and $14,572 respectively — grading, draining, bituminous macadam widening 2.117 mi. Cuyahoga Co., to Cleveland Trinidad Paving Co., Western Reserve Bldg., Cleveland, $50,677—2.46 mi. Summit Co., to Costigan-Schroyer Constr. Co., 106 North Main St., Akron, $31,129 — grading, draining, concrete widening 0.427 mi. Sect. "B" Sandusky-Bay Ridge Rd., Erie Co., and concrete paving 3.098 mi. Sect. "O" Bellevue-Milan Rd., Erie and Huron Counties, to Homebarger & Wager Eng. & Constr. Co., Sandusky, $3,600 and $71,400 respectively—concrete paving 1.929 mi. Greene Co., to Davis & Davenport Constr. Co., Spencerville, $49,182—2.397 mi. Meigs Co., to Bellefontaine Development Co., Bellefontaine, $40,845—2.667 mi. Mercer Co., to Churchill Constr. Co., Lima, $52,885—6.992 mi. Muskingum Co., to H. M. Bates, Steubenville, $152,960—grading, draining, brick widening 0.727 mi. Tuscawaras Co., to W. M. Brode Co., Newcomerstown, $12,758—grading, draining, crushed stone resurfacing 0.6 mi. Scioto Co., to Frowine Bros., Portsmouth, $11,766 — waterbound macadam paving 9.967 mi. Madison Co., to L. L. Clymer, Bluffton, $203,229. Grand total $846,057. Noted Mar. 24.

Pa., Pittsburgh—J. P. Kerr, controller, City-County Bldg., grading, curbing, guttering, paving 2nd Ave., to Dominick Pavia, 331 Ladson St. $10,345 est. $15,500—7th and Pennsylvania Aves., to R. D. Thomas, Jenkins Arcade, $9,214 and $4,765 respectively, est. $10,500 and $6,000 respectively—Carson St., to Harrison Constr. Co., 2101 Sidney St. $6,116 est. $7,000—Norwood Ave., to Nardulli & Sons, 1315 Washington Blvd., $2,612 est. $4,000—sewers in Northumberland St., to F. D. Sanctis & Sons, 410 Marlowe St., $5,590 est. $9,000. Grand total $38,642.

Ont., Owen Sound—Grey Co., maintenance, incl. grading, culverts, graveling, ditching, drainage, surfacing, etc., day labor. $50,000. $80,000 voted for same. R. C. McKnight, Court House, engr.

Bridges (Continued)

Ont., St. Catharines—Lincoln Co., road maintenance, grading, graveling, surfacing, drainage, ditching, culverts, etc., day labor. $69,000. F. N. Rutherford, St. Catharines, engr.

Ont., St. Thomas — Elgin Co., maintenance county road work, day labor, $30,000; road equipment and machinery $7,000. G. F. Pineo, Court House, engr.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

Mass., Weymouth—Town, Bd. Selectmen, 75 Middle St., concrete sea wall, Fore River Ave. $25,000.

Wash., Bellingham — Comrs. Whatcom Co. plan Nooksack River improvement work, filling in washed away land and rehabilitating road. $20,000. C. McCoy, Bellingham, co. engr.

Ont., Fort Erie—Dpt. P. Wks., Hunter Bldg., Ottawa, dredging Fort Erie Harbor and Niagara River. $200,000. K. M. Cameron, Hunter Bldg., Ottawa, ch. engr.

BIDS ASKED

N. Y., Long Beach—Apr. 12, by City Council, City Hall, rebuilding jetty, incl. 300 ft. steel to be taken up and reset, supplying and placing 500 tons stone at end of jetty.

N. S., Barrington Passage—Apr. 15, by N. Desjardins, secy. Dpt. P. Wks., Ottawa, Ont., dredging 19,000 cu. yd. clay, sand, gravel, small boulders, 400 cu. yd. boulders. $18,800.

N. S. Brooklyn—Apr. 15, by N. Desjardins, secy. Dpt. P. Wks., Ottawa, Ont., dredging 50,640 cu.yd. sand, clay and boulders. $42,000.

Ontario—Apr. 12, by N. Desjardins, secy. Dpt. P. Wks., Ottawa, dredging 8,200 cu. yd. mud, clay, sand and stone, Penetanguishene, $11,500; Apr. 15, dredging 83,300 cu.yd. clay, sand and silt, Fort William, $62,000.

Bond Elections

Coming Bond Elections

Water Distribution System — Figarden, Calif., Public Utility Dist., A. Segal, Cory Bldg., Fresno, engr. $30,000.

Sewers and Disposal Plant — Tarentum and Brackenridge, Pa., Apr. 26, C. E. Miller, 5147 Jenkins Bldg., Pittsburgh, engr., $50,000.

Sewage Disposal Plant, Sewer Extensions, etc. —Kohler, Wis., $100,000.

Bridge, Steel, Bascule, over River at D. St.— Petaluma, Calif., $80,000.

Road Improvements — Wright County, Iowa, April 23, $1,400,000.

Playgrounds — Milwaukee, Wis., Apr. 5, $200,000.

Electric Light and Power Plant—Morris, Minn. J. A. Mielke, City Clk. $150,000.

High School — Malvern, N. Y., Apr. 18, $345,000.

School — Lackawanna County, Pa., Dunmore School Dist., Apr. 26, $400,000.

High School and Swimming Pool—Eau Claire, Wis., Apr. 5. $355,000 and $30,000.

Bonds Voted

Light and Power Plant—Sumner, Iowa, $95,000.

Bonds Defeated

Water System—Northville, Mich., $15,000.

Straightening Cowskin Creek — Belle Blaine, Kan., Cowskin Drainage Dist., Sumner County, $55,000.

Gas Distribution System — Eldorado, Kan., $200,000.

FEDERAL GOVERNMENT

PROPOSED WORK

Calif., San Francisco—QUARTERS—Con. Q.M., Fort Mason, brick, rein.-con., tile officers quarters $110,000; and rein.-con. addition to Commandmant General's Headquarters Building $50,000, at Fort Mason, Presidio.

Mass., Cambridge — POST OFFICE — Treas. Dpt. at office Sup. Archt., plans by J. D. Leland & Co., 20 Providence St., Boston, and C. R. Greco, consult. archt., 11 Beacon St., Boston, Mass., U. S. Post Office, Massachusetts Ave. and Pleasant St. $755,000. Noted Feb. 4.

Mich., Detroit—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., making sketches and surveys brick, steel, concrete U. S. Post Office, Roosevelt Park site. $1,750,000.

N. H., Manchester—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., new plans U. S. Post Office. To exceed $200,000. Former bids for building and elevator rejected. Noted Oct. 15 and 22.

New Jersey—DREDGING—U. S. Eng., Wilmington, Del., 578,000 cu.yd. in Cold Spring Inlet.

N. J., Metuchen—OFFICERS' QUARTERS—Con. Q. M., Raritan Arsenal, 2 story, basement, brick, steel officers' and non-commissioned officers' quarters, Raritan Arsenal. $150,000. **Maturity indefinite.**

N. J., Oceanport—QUARTERS, etc.—Con. Q. M., Fort Monmouth, sketches 2 story, basement, brick, stone, steel officers' quarters, garages, Fort Hancock. $150,000.

N. Y., Batavia—HOSPITAL—Vet. Bu., Arlington Bldg., Wash., D. C., U. S. Veterans Hospital on 52 acre tract. To exceed $1,000,000. Site selected. Noted Dec. 3.

N. C., Mount Airy—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., soon takes bids U. S. Post Office. $125,000.

O., Dayton—WATER SOFTENING SYSTEM —Vet. Bu., Arlington Bldg., Wash., D. C., cancelled bids to have been opened Mar. 22, lime soda softening system at U. S. Veterans' Hospital. Noted Mar. 10.

Okla., El Reno — POWER PLANT — Dpt. Justice, Wash., D. C., plans by Hawk & Parr, 1st Natl. Bank Bldg., Oklahoma City, 2 story, basement power house, $150,000, and 3 story, basement dormitory, $500,000, at U. S. Reformatory, near here. Noted Dec. 10.

Pa., Williamsport — POST OFFICE, etc. — Treas. Dpt. at office Sup. Archt., Wash., D. C., soon takes bids remodeling and constructing U. S. Post Office and Court House addition, 4th St. $240,000. F. A. Rianhard, Williamsport, archt. Noted June 11.

Texas — DREDGING — U. S. Eng., River & Harbors Dpt., improving Brazos Island Harbor, provides for interior channel leading to Point Isabel and turning basis. $450,000. Work will be started when local interests turn over $350,000 due to U. S. Government as share of project. Nothing is being done on project in meantime as all plans are completed.

Tex., Fort Sam Houston—SOIL PIPE, etc.—Con. Q. M. soon takes bids 7,415 ft. ¾ in. to 1½ in. wrought iron soil pipe, tees, ells, fittings, irons, bends, brass gate valves, 51 shower outfits, etc.

Tex., McAllen—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by W. D. Van Siclen, State Natl. Bank Bldg., Brownsville, U. S. Post Office. $125,000. Noted Oct. 29.

BIDS ASKED

California—VENTILATING—Apr. 14, by C. H. Sweetser, dist. engr. Pub. Rds., 461 Market St., San Francisco, enlarging ventilating adit on highway tunnel on Wawona Rd., Yosemite Natl. Park.

Calif., San Francisco—SWITCHBOARD—Con. Q.M., Fort Mason, taking bids 100 kw. generator set and 200 kw. turbine end for generator power plant switchboard, etc. for Letterman General Hospital.

Calif., Sunnyvale—DISTRIBUTING SYSTEM —Spec. 6813—Apr. 13, by Yards & Docks, Navy Dpt., Wash., D. C., under-ground electric distributing system, incl. concrete manholes, transformer vaults, conduit encased in concrete, etc. at Naval Air Station; adv. E. N.-R. Apr. 7.

Calif., Sunnyvale—INDUSTRIAL BUILDINGS —Spec. 6791—Apr. 27, by Yards & Docks, Navy Dpt., Wash., D. C., industrial buildings, incl. storehouse, paint and oil storehouse, commissary building, fire station, garage and laundry, locomotive and crane shed and shop building at Naval Air Station; adv. E. N.R. Apr. 7. Noted Mar. 24.

Conn., Hartford—DREDGING—Apr. 20, by U. S. Eng., Providence, R. I., 50,000 cu. yd. material in Connecticut River, $25,000; adv. E. N.-R. Apr. 7.

D. C., Wash.—EXTENSIBLE BUILDING—May 6, by Treas. Dpt. at office Sup. Archt., constructing 5 wings extensible building for Dpt. Agriculture, 13th and 13½ Sts. $7,000,000.

D. C., Wash.—OFFICE—May 16, by Treas. Dpt. at office Sup. Archt., Wash., D. C., office for U. S. Dpt. Labor, Interstate Commerce Commission building, and connecting wing. $9,000,000.

D. C., Wash. — TRACTOR-MOWER, etc. — Apr. 12, by A. L. Flint, genl. purch. officer Panama Canal, tractor mower, manganese steel dipper, lips, pipe and fittings, etc., Schedule 2741.

D. C., Wash.—REMODELING—Apr. 8 (extended date), by Treas. Dpt. at office Sup. Archt., remodeling, extending and enlarging U. S. Post Office, $4,000,000. Noted Feb. 25.

Fla., Miami — QUARANTINE STATION — Apr. 14, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Quarantine Station; adv. E. N.-R. Apr. 7. Noted Jan. 28.

Illinois—EARTHWORK—Apr. 20, by U. S. Eng., Customhouse, St. Louis, Mo., placing 1,050,000 cu.yd. earthwork in rebuilding, enlarging levee of Scott Co. Drainage & Levee Dist. Scott Co., Illinois River; adv. E. N.-R. Apr. 7.

Illinois and Missouri—PILING DIKES—Apr. 15, by U. S. Eng., 428 Customhouse, St. Louis, Mo., 3,600 lin.ft. piling dikes in Mississippi River, at Devils Island, Ill., and Kinney Point, Mo., between Miles 54-60 above Cairo, Ill.; adv. E. N.-R. Apr. 7.

Ill., Chicago—CUSTOM HOUSE—Apr. 14, by Treas. Dpt. at office Sup. Archt., Wash., D. C., excavations and foundations for U. S. Appraisers' Stores Building. Total cost $1,150,000. Noted Feb. 11.

Ill., Waukegan—POST OFFICE—May 2, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office; adv. E. N.-R. Apr. 7. Noted Mar. 24.

Kan., Wichita—HOSPITAL—May 17, by Vet. Administration, Arlington Bldg., Wash., D. C., constructing U. S. Veterans Administration Home; adv. E.N.-R. Apr. 7. Noted Dec. 24.

Md., Sharpsburg — STONE RETAINING WALLS—Apr. 12, at office Con. Q. M., Headquarters 3rd Corps. Area, rubble retaining and guard walls on avenues and roads in Antietam Battlefield.

Mass., Winona—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., taking bids U. S. Post Office. $75,000.

Mich., Detroit—EXCAVATING—May 5, by U. S. Eng., Detroit, 2,687,400 cu.yd. material, principally ledge rock from Livingstone Channel, Detroit River; adv. E. N.-R. Apr. 7. Noted Feb. 25.

Mich., Milan — JAIL — Apr. 28 (extended date), by Bureau Prisons, Dpt. Justice, constructing jail. Noted Mar. 31.

Minn., Little Falls—WATER PIPE—Apr. 14, by Con. Q. M. Camp Ripley, furnishing, laying ¾ mi. 4- to 10-in. c.i. water pipe, hydrants, gate valves, at Camp Ripley. $6,145. Noted Feb. 25.

Nev., Elko—POST OFFICE—May 9, by Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing U. S. Post Office; adv. E. N.-R. Apr. 7. Noted Mar. 24.

N. H., Portsmouth—CONDENSER, etc.—Apr. 20, by Yards & Docks, Navy Dpt., Wash., D. C., condenser, pump and air ejector, 16,000 lbs. per hr. steam capacity.

N. Y., Brooklyn—CONDUIT—Apr. 18, by Signal Supply Officer, Army Base, 58th St. and 1st Ave., conduit.

N. Y., Brooklyn—PIER—Apr. 11, by Con. Q. M., Army Base, 58th St. and 1st Ave., repairing Piers 1 and 2 at U. S. Army Base. Former bids rejected.

N. Y., Brooklyn—POLE—Apr. 12, by Signal Supply Officer, Army Base, 58th and 1st Ave., wood creosoted, yellow pine pole.

N. Y., Brooklyn—WIRE—Apr. 15, by Signal Supply Officer, Army Base, 58th St. and 1st Ave., 161,080 ft. wire.

N. Y., Fort Slocum—PAVING—Apr. 12, by Con. Q. M., constructing and completing concrete paving at Barracks 2, North Building.

N. Y., New York—FEDERAL COURT—Apr. 21, by Treas. Dpt. at office Superv. Archt., Wash., D. C., excavation and foundation for new federal court building, Park Row, Duane, Pearl and Park Sts. Total est. $10,700,000. Noted Feb. 11.

S. C., Parris Island—ROADS—Spec. 6799—Apr. 13, by Yards & Docks, Navy Dpt., Wash., D. C., widening concrete roads at U. S. Marine Barracks. Noted Mar. 24.

Tenn., Chattanooga—ELEVATOR PLANT—Apr. 14, by Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator plant in U. S. Post Office and Court House.

Va., Fort Monroe—STEEL TOWER—Apr. 15, by U. S. Eng., Headquarters, 311 St. Paul's Pl., Baltimore, Md., 1 rigid steel tower and shelter.

Va., Langley Field—DREDGING—Apr. 13, at office Con. Q. M., dredging in vicinity of seawall.

CONTRACTS AWARDED

California — ROADS — C. H. Sweetser, dist. engr., Pub. Rds., 461 Market St., San Francisco, grading 4.097 mi. Hoopa Valley Indian Reservation, Humboldt Co., to Hemstreet & Bell, 11th and E Sts., Marysville, $126,708. Noted Feb. 11.

Conn., Manchester—ELEVATOR—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator in 1 story, basement, brick, steel U. S. Post Office, to Haughton Elevator & Machine Co., Vermont Bldg., Wash., D. C., $4,381. Noted Mar. 17.

Conn., Newington — GARAGE — Vet. Bu., Arlington Bldg., Wash., D. C., addition to Garage Building 3, to T. Perrone, 1026 Main St., Hartford, $8,950. Noted Feb. 25.

D. C., Wash.—HEATING PLANT—Treas. Dpt. at office Sup. Archt., Wash., D. C., 4 boilers for central heating plant for Public Buildings, to Combustion Eng. Corp., 200 Madison Ave., New York, N. Y., $426,431. Noted Mar. 24.

Florida—DREDGING—U. S. Eng., Jacksonville, dredging 341,230 cu. yd. Mantanzas River, near Crescent Beach Bridge, to C. Moore, Delray, $28,322. Noted Mar. 10.

Ga., Macon—EXTENDING, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., extending, remodeling U. S. Post Office, to Concord Constr. Co., 5631 Sansom St., Phila., Pa., $298,298 (480 days). Noted Jan. 28.

Illinois—EXCAVATING, etc.—U. S. Engrs., Chicago, excavating and dredging in Marseilles Pool, Illinois Waterway, to D. C. Huffman Constr. Co., 556 Terminal Tower, Cleveland, O., $886,500. Noted Feb. 25.

Ill., Marseilles—DAM—U. S. Eng., 1st Chicago Dist., Chicago, Marseilles Dam and appurtenant works, incl. taintor gates on Illinois River, to Stevens Bros. and Miller-Hutchinson Co., Sellers, La., $497,175. Noted Feb. 25.

Ill., Milan — EXCAVATING — U. S. Eng., Federal Bldg., Rock Island, excavating new cut-off channel, and deepening, enlarging existing channel of South Slough, west of here, to M. W. O'Meara, 708 W.C.U. Bldg., Quincy, $11,418. Noted Feb. 18.

Ia., Davenport—ELEVATOR—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator in U. S. Post Office, to Otis Elevator Co., 810 18th St. N. W., Wash., D. C., $13,000. Noted Feb. 18.

Kan., Leavenworth — TIE PLATES, etc. — U. S. Eng., to St. Louis, Frog & Switch Co., 6650 Easton Ave., Wellston, Mo., 2,000 tie plates at $0.24 and $0.28 and switch stands $20.10.

Ky., Lexington—GARAGE—U. S. Veterans' Hospital, addition to Garage 3, to Smythe & Co., 1416 F St. N. W., Wash., D. C., $9,834. Noted Mar. 3.

Mich., Detroit—POST OFFICE—Great Lakes Constr. Co., 333 North Michigan Ave., Chicago, Ill., 7,500 tons structural steel for U. S. Post Office, to McClintic Marshall Co., Bethlehem, Pa., for Treas. Dpt. at office Sup. Archt..

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Federal Government (Continued)

Wash., D. C. Noted Mar. 24, under "Contracts Awarded."

Mich., Grand Haven—SUPERSTRUCTURE—U. S. Eng., Milwaukee, Wis., concrete superstructure on 606 ft. revetment, to Merritt Chapman & Whitney Corp., Duluth, Minn., $12,441. Noted Feb. 11.

Mich., Sturgis—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to R. Sollitt & Sons Constr. Co., South Bend, Ind., $46,795 (360 days). Noted Nov. 12.

Minn., St. Paul—EXCAVATING—Treas. Dpt. at office Sup. Archt., Wash., D. C., excavating, foundation, basement, plumbing for U. S. Post Office, to Lovering, Longbotham & J. Leck Co., 605 Builders Exch., $240,243 (120 days). Noted Feb. 18.

Mo., Kansas City—LUMBER—U. S. Eng., Postal Telegraph Bldg., 500,000 ft. mattress lumber, to Wheeler Lumber, Bridge & Supply Co., Hubbell Bldg., Des Moines, Ia., $4,250.

Neb., Lincoln — DEEP WELL — Vet. Bu., Arlington Bldg., Wash., D. C., deep well at Veterans' Hospital, to Layne-Western Co., Interstate Bldg., Kansas City, Mo., $1,695. Noted Jan. 21.

N. Y., Hempstead—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Brooklyn & Queens Screen Mfg. Co., Garden City, $133,920 (360 days). Noted Mar. 3.

N. Y., New York—BAGGAGE and DORMITORY — Commissioner Immigration, Ellis Island, plumbing for Baggage and Dormitory Building 1, to A. Blaustein, 1102 Kings Highway, Brooklyn, $28,760.

N. D., Garrison—TEST BORINGS—U. S. Eng., Kansas City, 2,690 ft. test borings, 100 ft. open test pit, incidental work in Missouri River, Valley, near here, to E. J. Longyeaar, Exploration Co., Foshay Tower, Minneapolis, Minn., $8,539. Noted Feb. 18.

N. D., Grafton—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to West Englewood Constr. & Supply Co., 6239 South Ashland Ave., Chicago, Ill., $44,645 (360 days). Noted Dec. 24.

O., Athens—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office, to C. E. King, Charlottesville, Va., $15,680 (120 days). Noted Jan. 14.

O., Fairfield—HANGAR—Con. Q. M., Wright Field, hangars at Patterson Field, to Newport Contg. & Eng. Co., Lee Hall, Va., $161,575. Noted Mar. 10.

Ore., Portland—REPAIRING DREDGE—U. S. Eng., Portland, repairing dredge "Savannah," to Albina Engine & Machine Wks., Inc., foot Clark St., $12,935.

Pa., New Kensington—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., 2 story, basement, brick, stone, to Nicholas Co., 4848 Lancaster Ave., Phila., Pa. Est. $285,000. Noted Feb. 11.

Va., Deep Creek—WALLS—U. S. Eng., Norfolk, to D. F. Tyler Corp., 716 East Charlotte St., Norfolk, driving 7,200 sq.ft. steel sheet piling walls at $0.172; furnishing, placing 9 tie back anchors at $192; removing 2 wood cofferdams $443.50; removing 8,000 cu.yd. cofferdam fill $0.20; removing 1 bracing system in lock chamber $100; placing 3,000 cu. yd. earth back fill $0.36; placing 250 cu.yd. clay back fill $3.75. Noted Mar. 10.

Va., Norfolk—DREDGING—U. S. Eng., Office, dredging in Norfolk Harbor, to Arundel Corp., Pier 2, Pratt St., Baltimore, Md., $239,702. Noted Feb. 4.

Tex., Galveston—ELEVATOR—Treas. Dpt. at office Sup. Archt., Wash., D. C., passenger elevator at U. S. Immigration Station, to Otis Elevator Co., 810 18th St., Wash., D. C., $4,238. Noted Feb. 18.

Wis., Waupun—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, incl. approaches, to Immel Constr. Co., Fond du Lac, $47,800 (360 days). Noted Feb. 25.

T. H., Oahu—WHARF—Spec. 6704—Yards & Docks, Navy Dpt., Wash., D. C., concrete wharf, incl. railroad trestles, at Naval Ammunition Depot, to Kalihi Contg. Co. Ltd., Honolulu, $109,900. Former contract cancelled. Noted Jan. 14.

RAILWAYS

PROPOSED WORK

Missouri—Wabash R.R. Co., E. L. Cruger, ch., engr. and W. S. Franklin, pres. and receiver, Exchange Bldg., St. Louis, 1932 maintenance program, incl. laying 70 mi. 110 lb. rail; 600,000 ties; placing 410,000 cu. yd. additional track ballast and maintaining and improving locomotives; freight cars and passenger equipment, $16,800,000. United States Dist. Judge Davis in St. Louis, authorized receivers of railroad to expend $77,840 for reconstructing trestle bridges at Dunreath, Ia., 2 bridges near Chillicothe, Mo., Meredosia and Valley City, Ill.

Ohio—Cleveland Railway Co., A. C. Kennedy, purch. agt., Midland Bldg., Cleveland, soon takes bids renewing street car tracks, incl. cement, slag, ballast, etc., in Cleveland. $448,000. Noted Mar. 3.

Virginia—Chesapeake & Ohio Ry. Co., Richmond, C. J. Johns, ch. engr., expending $10,500,000 during 1932, improving tunnels, bridges, double tracking, other work.

SUBWAYS AND TUNNELS

BIDS ASKED

N. Y., New York—Apr. 12, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., installing tracks, contact rail and other work for part of Rapid Transit R.R., 207th St. Yard Extension.

GRADE CROSSINGS

BIDS ASKED

Calif., Oakland—Apr. 12, by G. Gross, clk. Alameda Co., rein.-con. underpass in Niles Canyon. $35,000.

New York—See "Streets and Roads."

CONTRACTS AWARDED

N. Y., Amity—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., superstructures, approaches in connection with eliminating Whitcomb Crossing on Friendship-Belmont State Hy., to Bates & Rogers Constr. eliminating Whitcomb Crossing on Friendship-Co., Standard Bank Bldg., Cleveland, O., $23,905. Est. $43,496. Noted Jan. 14.

N. Y., Elmira — Delaware, Lackawanna & Western R.R. Co., G. J. Ray, ch. engr., Hoboken, N. J., authorized by Pub. Serv. Comn., to do certain work incl. raising existing truss bridge, revising depot facilities, changing freight yard and main line tracks, railroad sidings, telephone and signal systems. Owner will furnish material and equipment and do work by direct employment of labor. Total est., incl. material and equipment, $636,379. Noted Mar. 17.

Wisconsin — State Hy. & Unemployment Comns., Madison, Schultz Overhead (approaches) Columbia Co., to Burch Constr. Co., 119 Monona Ave., Madison, $15,513—North Camp Douglas Grade Separation, U. S. Hys. 12 and 16, and West Camp Douglas Grade Separation, State Trunk Hy. 94, both Juneau Co., to L. G. Arnold, Inc., Eau Claire, $24,159 and $22,024. Grand total $61,696. Noted Mar. 17.

DAMS

PROPOSED WORK

Massachusetts — Commonwealth of Massachusetts, Metropolitan Dist. Comn., Boston, dam with sluice gates, drawbridge and locks across Mystic Ave., at Boston & Albany R.R. Bridge, between Somerville and Everett. $800,000.

BIDS ASKED

Calif., Los Angeles—E. C. Eaton, engr., 202 North Bway., bids about Apr. 26, San Gabriel Dam 1, rock fill, 275 ft. high, 2 mi. below forks of San Gabriel Canyon, and about 9 mi. north of Azusa, for Los Angeles Co. Flood Control Dist., 202 North Bway. $10,000,000. Noted Aug. 27.

PIERS AND WHARVES

CONTRACTS AWARDED

Calif., San Francisco—WHARF—California State Harbor Comn., Ferry Bldg., rein.-con., timber wharf extension at Islais Creek, to Healy-Tibbitts Co., 64 Pine St., $161,380. Noted Jan. 28.

AIRPORTS

CONTRACTS AWARDED

Tex., Dallas — City, c/o J. N. Eddy, mgr., underground lighting system for airport runways, to N. E. Busby & Co., 4004 Main St., $19,976.

GRAIN ELEVATORS

PROPOSED WORK

Mo., Kansas City — GRAIN ELEVATOR — Missouri Pacific R.R. Co., E. A. Hadley, ch. engr., Missouri Pacific Bldg., St. Louis, plans nearing completion 8 story superstructure grain elevator, Nicholson and Topping Aves. $150,000. Excavating awarded to Winston Bros., 407 Buder Bldg., St. Louis; piling, to A. Whitney & Sons, Inc., 1801 Grand Ave. Hall Baker Grain Co., Bd. Trade Bldg., lessee. Noted June 18.

Ont., Toronto—GRAIN ELEVATOR—Canada Malting Co., Royal Bank Bldg., concrete addition, conveying equipment, foot of Bathurst St. $100,000. John S. Metcalfe Co., Ltd., Helen St., Montreal, Que., engrs. Noted Mar. 24.

CONTRACTS AWARDED

Mo., Kansas City—GRAIN ELEVATOR—See "Proposed Work."

POWER AND LIGHTING

PROPOSED WORK

California—Southern Counties Gas Co., 810 Souht Fowler St., Los Angeles, plans 67 mi. 12½ in. steel natural gas pipe line from Huntington Beach to connect at Rose Cayon near La Jolla. Specifications not completed. Line may be built by company forces. Required compressor equipment owned bf company. M. R. Thompson, 810 South Flower St., Los Angeles, vice pres. in charge of construction.

CONTRACTS AWARDED

Tex., Dallas—See "Airports."

PARKS AND SPORTS

PROPOSED WORK

Calif., Pomona—Bd. Comrs. Los Angeles Co., Los Angeles, soon take separate bids, incl. general contract, structural steel, plumbing, ventilating, electrical work and painting, 142 x 420 ft. steel, concrete grand stand, 79 ft. high. $200,000. W. Davidson, Hall of Records Bldg., Los Angeles, mechanical engr. Noted June 26.

N. Y., Jamaica—Dpt. Parks, W. R. Herrick, pres. Park Bd., Arsenal Bldg., Central Park, New York, park and playgrounds, 165 St. and Liberty Ave. $150,000. Site selected, purchase to be completed and property improved when funds are available.

BIDS ASKED

Pa., Uniontown—L. L. Heyn, mgr., Summit Hotel, Loutellus Apartments, 245 Melwood St., Pittsburgh, taking bids brick bathouse, hollow tile or cinder block backup, irregular sized, cement floor, probably wood joist roof construction, also rein.-con. swimming pool 3 to 10 ft. deep. $25,000. W. A. Becker, 1006 Mercantile Lib. Bldg., Cincinnati, O., design and construction engr. Noted Jan. 28.

CONTRACTS AWARDED

Conn., Bridgeport—Brooklawn Country Club, Brooklawn Ave., general contract 45 x 140 ft., concrete outdoor swimming pool, to Hewlett Co., 886 Main St., $22,000. Est. $25,000. Noted Mar. 31.

La., Shreveport—Centenary College, fabricating steel for new athletic stadium, to J. P. Beaird Corp., Shreveport, $25,000. Noted Mar. 24.

Wis., Lake Geneva — City, wood and sheet piling, rein.-con. substructure for Recreation House and Beach, to Reinert & Malsch, Lake Geneva. Total est. $85,000. Bids about Apr. 15 on superstructure. Noted Feb. 11.

HEATING AND VENTILATING

PROPOSED WORK

Mass., Boston — F. A. and F. M. Kendall, archts., 45 Bromfield St., preparing plans and will let by separate contracts heating and electrical work in department store, Tremont St., for E. T. Slattery Co., 154 Tremont St. $25,000. Noted Mar. 17, under "Stores."

N. Y., New York—New York Steam Co., 280 Madison Ave., extending underground steam mains and facilities for Radio City. Budget for 1932 $2,500,000.

CONTRACTS AWARDED

N. Y., Pine Aire Station—Dpt. Mental Hygiene, State Office Bldg., Albany, kitchen equipment at Pilgrim State Hospital, to Arkay Co., 335 West 16th St., New York, $25,995; sanitary work, to Bareham & McFarland, Inc., 136 North St., Rochester, $749; heating, to Hemanns Mechanical Contg. Co., 103 Park Ave., New York, $919; refrigeration (Building 29), to Vilter Mfg. Co., 935 Clark St., Milwaukee, Wis., $9,990; bakery ovens, machinery (Building 36) to Champion Mchy. Corp., 450 South Center St., Joliet, Ill., $35,574; refrigeration in Bakery Building 36, to Carbondale Co., 175 Christopher St., New York, $4,887. Grand total $78,114. Noted Feb. 18.

UNCLASSIFIED

PROPOSED WORK

Indiana and Michigan—PIPE LINE—Owner, c/o Brokaw Dixon, Garner & McKee, engrs., 120 Bway., New York, 200 mi. 20 in. steel pipe line from Muncie, Ind., to Detroit, Mich. **Maturity indefinite.**

BIDS ASKED

Ark., Ft. Smith—BULK OIL STATION—See "Contracts Awarded."

Conn., Ridgefield—LAND DEVELOPMENT—See "Contracts Awarded."

New York—TELEPHONE EQUIPMENT, etc.—Apr. 19, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, furnishing, installing telephone and emergency alarm equipment for portion Independent System of City-owned Rapid Transit Railroads extending from Hudson Terminal, Manhattan, to Jay St., and from Concord to Jay Sts. to Avenue C and Gravesend Ave., Brooklyn Boro; also furnishing, installing drainage equipment for Line C, from 149th St. to Webster Ave., Manhattan and Bronx Boros.

N. C., Raleigh—PRISON CAMPS—Apr. 11, by State Hy. Comn., Raleigh, two 75 man and two 100 man prison camps, incl. plumbing, heating, water supply, lighting, etc. $75,000. Buildings to be erected by state forces, but roofing, plumbing, and electrical work to be let to contract. L. R. Ames, Raleigh, archt.

Unclassified (Continued)

CONTRACTS AWARDED

Ark., Ft. Smith — BULK OIL STATION — Standard Oil Co. of Indiana, 2134 St. Charles Ave., New Orleans, La., H. Armstrong, local mgr., 1 story, 40 x 90 ft., concrete, steel warehouse, 1 story 36 x 48 ft. corrugated steel siding, steel I-beam garage, cement floors, six 20,000 gal. storage tanks, Midland and North Sts., day labor. Est. $25,000.

Conn., Ridgefield—LAND DEVELOPMENT—J. B. McGorick, 143 West 41st St., New York, developing 280 acres or more for summer residential development, incl. road and street work, waterworks, etc., developing 60 acre lake, log-cabin camps, separate contracts and day labor. To exceed $25,000.

Ill., Chicago—FOUNDATION—See "Commercial Buildings."

Ill., Joliet — STONE CRUSHING PLANT — State of Illinois, Dpt. Purchases & Constr., Capitol Bldg., Springfield, H. H. John, dir., accessories and equipment for stone crushing plant, to Link-Belt Co., 300 West Pershing Rd., Chicago; structural steel, to Continental Bridge Co., 343 South Dearborn St., Chicago; reinforcing steel, to H. J. Baker & Co., 602 McCardy St., Indianapolis, Ind.; steel sash and hardware, to Campbell Metal Window Corp., 228 North La Salle St., Chicago. Noted Jan. 11.

New York — COUNTERBALANCES — Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, furnishing, installing counterbalances on sidewalk doors to underground rectifier stations, also locks for removable panels of ventilation gratings, Manhattan, Brooklyn, Bronx and Queens Boros., to Alten Iron Wks., 452 Lexington Ave., New York, $4,988. Noted Mar. 10.

N. Y., Peekskill—FOUNDATION—Adjutant General, Div. Military & Naval Affairs, Executive Dpt., Albany, cancelled bids to have been opened Mar. 30, additional foundation work at Peekskill State Armory. Contractor now on job will do work without additional bidding. Est. $8,000. Noted Mar. 24.

N. Y., Syracuse—ELECTRICAL WORK, etc. —Commissioner Education, Education Bldg., Albany, electrical work, service connections, Forestry Science and Laboratory Buildings, New York State College of Forestry, Syracuse University, to Muirhead Eng. Co., 562 Bway, New York, $7,949. Noted Feb. 18.

Oklahoma—PIPE LINE—Phillips Petroleum Co., Bartlesville, constructing 45 mi. 6 in. oil pipe line from Oklahoma City to Earlsboro, to Kelly, Dempsey & Co., Hunt Bldg., Tulsa, $250,000.

MATERIALS

PROPOSED WORK

ROAD OIL—**Jefferson City, Mo.**—State Hy. Dpt. bids latter part April, 7,915,000 gal. Grades 2, 3 and 4 grades road oil for use in 10 maintenance divisions, throughout state.

STRUCTURAL STEEL—**Phila., Pa.**—See "Industrial Buildings."

BIDS ASKED

ROAD OIL—**Hartford, Conn.**—Apr. 12, by Bd. Contr. & Supply, J. S. Bush, secy., 300,000 gal. more or less 45 to 55% asphaltic base road oil during fiscal year ending Mar. 31, 1933. R. N. Clark, City Hall, engr.; adv. E. N.-R. Apr. 7.

PETROLEUM ASPHALT—**Chicago, Ill.**—Apr. 11, by Dpt. P. Wks., City Hall, petroleum asphalt required by Bureau Streets for paving and maintenance during 1932. A. A. Sprague, comr.

REFINED TAR—**Chicago, Ill.**—Apr. 13, by Dpt. P. Wks., City Hall, 200,000 gal. refined tar required by Bureau Streets during present year, price f.o.b. city vehicles and contractors vehicles at contractors plants in city of Chicago. A. A. Sprague, comr.

ROAD OIL, ASPHALT, etc.—**Indiana**—Apr. 11, by State Hy. Comn., Indianapolis **(I. means Invitation and S.-D. means Sub-District)**, furnishing, applying road oil, liquid asphalt or tar on surface of roads in I. 789, S.-D. Crawfordsville and Frankfort, I. 789, S.-D. Fowler, Covington, Terre Haute and Greencastle, I. 790, S.-D. Dale, I. 791, S.-D. Evansville, I. 792, S.-D. Petersburg, I. 793, S.-D. Linton and Vincennes; I. 794, S.-D. Paoli and Vincennes, J. J. Brown, dir.

SEWER CASTINGS, etc.—**Minneapolis, Minn.** —Apr. 15, by City, F. S. Gram, purch. agt., 150 tons sewer castings. N. W. Elsberg, city engr.

BRIDGE LUMBER—**Laurel, Miss.**—Apr. 16, by W. L. Bushby, clk. Jones Co., 150,000 ft. treated and untreated lumber for bridge construction.

ROAD OIL, etc.—**Clayton, Mo.**—Apr. 13, by Comrs. St. Louis Co., 100 cars road oil and 350,000 gal. more or less bitumen (asphalt), to be ordered as needed during 1932. R. Jablonsky, Court House, co. engr.

WHITE CEDAR—**Atlantic City, N. J.**—Apr. 13, by Bd. Freeholders Atlantic Co., Guarantee Trust Bldg., white cedar or juniper lumber for guard rail of Brigantine Bridge, f.o.b. Atlantic City freight prepaid. $5,000. A. H. Nelson, 741 Guarantee Trust Bldg., co. engr.

TAR, etc.—**Newton, N. J.**—Apr. 19, by Bd. Freeholders Sussex Co., Court House, 234,000 gal. Grade B tar; 83,000 gal. Grade A or U tar; 32,000 gal. asphalt N.A. 4 or O.A. 4, all foregoing applied; 8,000 gal. cold patch asphaltic emulsion, f.o.b. Newton; 32,000 gal. cold patch; 420 tons calcium dust layer; 2,400 tons dustless screenings trap rock; 6,000 tons dustless screenings, trap rock, dolemite or limestone, f.o.b. Newton; 2,000 tons broken stone; 1,000 tons broken stone, f.o.b. Newton, etc. N. B. Norman, clk.; adv. E. N.-R. Apr. 7.

GRAVEL—**Long Island City, N. Y.**—Apr. 11, by G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., 13,057 cu.yd. cementitious road gravel to Bureau of Hys. as directed.

CONTACT RAIL MATERIALS—**New York, N. Y.**—Apr. 12, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., supply contact rail materials, incl. protection board brackets and splice plates, contact rail insulators, contact rail insulator caps, cups, etc., contact rail appurtenances, open hearth contact rail, for Rapid Transit Railroads.

ASPHALTIC MACADAM BINDER — **St. George, N. Y.**—Apr. 13, by J. A. Lynch, pres. Richmond Boro, Boro Hall, 300,000 gal. asphaltic macadam binder; 85,000 gal. asphaltic cement; 2,000 tons bituminous concrete to Dists. 1, 2 and 3; 50,000 gal. fuel oil to Asphalt Plant, Bureau of Hys.

ASPHALTIC CONCRETE—**Cleveland, O.**—Apr. 12, by Bd. Comrs. Cuyahoga Co., 3,500 tons asphalt concrete, cold mix. $24,500.

SLAG, etc.—**Cleveland, O.**—Apr. 12, by Bd. Comrs. Cuyahoga Co., F. J. Husak, clk., 10,000 tons No. 5 and 10,000 tons No. 34 slag or 12,000 tons No. 5 and 12,000 tons No. 34 stone.

RAILS—**Toronto, Ont.**—Canadian National Railways, T. T. Irving, ch. engr. (Eastern lines) Union Sta., in market 10,000 and 15,000 tons steel rails for use on Eastern Lines this year. $1,000,000.

CONTRACTS AWARDED

CAST IRON PIPE—**Glendale, Calif.**—City Council, 20,000 lin.ft. 6 in. and 15,000 lin.ft. 8 in. Class 250 c.i. pipe, to Utilities Equipment Co., 110 North Alameda St., Los Angeles, $18,638.

SHEET PILING—**Los Angeles, Calif.**—City, T. Oughtno, purch. agt., City Hall, sheet piling, Spec. 2739, to United Commercial Co., 837 East Gage St., $22,750 min., $45,649 max.

PIPE—**Santa Barbara, Calif.**—City Council, V. E. Trace, supt. Water, City Hall, 448 lin.ft. 12 in., 2,000 lin.ft. 6 in., and 3,000 lin.ft. 4 in. c.i. water pipe, fourteen 6 x 4 in. reducers, to American Cast Iron Pipe Co., 412 West 6th St., Los Angeles, $2,423. Noted Mar. 10.

ASPHALT—**Pueblo, Colo.**—City, c/o G. W. Clark, clk., 7 car loads of asphalt, to White Eagle Oil Corp., 1st Natl. Bank Bldg., Wichita, Kan., at $13.95 per ton.

LUMBER and PIPE—**Jefferson, Ia.**—Green Co., E. B. McGlothlen, aud., 116,400 ft. untreated and 56,500 ft. treated lumber, 4,220 ft. piling, to Nebraska Bridge Supply & Lumber Co., 448 Peters Trust Bldg., Omaha, Neb., $9,728; 6,000 ft. concrete pipe, to Wilson Concrete Co., Red Oak, $4,590. Noted Mar. 10.

CULVERTS, BRIDGES, etc.—**Waukon, Ia.**—Bd. Comrs. Allamakee Co., to M. T. Teff, Dorchester, 5 items of bridges and culverts $1,359; to Brennen Bros., Lansing, 7 items bridges and culverts $1,924; to I. E. Beeman, Waukon, 15,500 ft. rein.-wire mesh at $1.65, $2.05, $2.50, $3.40 on LCL or $1.39, $1.745, $2.14 and $2.85 on CL; to J. Beede, 3,000 pieces ⅝ in. x 20 ft. reinforcing bars at $1.82 on CL, 519 bbl. cement at $2.09 per bbl.; to Simmer Oil Co., 300 gal. No. 2 oil at $0.22 per gal., 500 gal. No. 3½ and 500 gal. No. 4 $0.24, 1,500 gal. No. 5 $0.25, 400 gal. No. 6 $0.13, 3 bbl. No. PG at $0.08 per gal., 2 bbl. No. G $0.07½; to Frudden Bridge Lumber & Supply Co., Greene, 14,400 ft. 3 x 10 in. x 14 ft. fir lumber at $34.90 per 1,000 ft., 4,800 ft. 3 x 12 in. x 16 ft., 5,400 ft. 3 x 12 in. x 18 ft. and 6,000 ft. 3 x 12 in. x 20 ft. $35.40; to Mendenhall Lumber Co., 1,038 bbl. cement at $2.20 per bbl. in cloth sacks; to Mid-Continent Oil Co., Waterloo, 50,000 gal. gasoline at $0.04; to T. F. O'Brien, 25,000 lb. dynamite at $12.75 CL, 3,400 electric caps at $263, 6,000 blasting caps $83.43, 10,000 ft. medium fuse, $53.20, C. Oak ore $57.60 Clover.

LUMBER, etc.—**Waverly, Ia.**—Bremer Co., A. J. Summe, aud., 142,650 ft. Classes A and C SS fir lumber, to W. W. Saylow, Waverly, $4,634; 2,830 ft. 15 in., 4,838 ft. 18 in., and 1,808 ft. 24 in. culvert pipe, to Klauer Mfg. Co., Dubuque, $6,233. Noted Mar. 3.

CULVERT PIPE and LUMBER — **Webster City, Ia.**—Hamilton Co., J. J. Doolittle, aud., 3,600 ft. 15 in., 1,260 ft. 18 in. and 1,260 ft. 24 in. culvert pipe, to Iowa Culvert & Pipe Co., Des Moines, $3,706; 1,104 ft. creosoted piling and 26,416 ft. creosoted lumber, to Frudden Bridge, Lumber & Supply Co., Greene, $2,121. Noted Mar. 3.

OILING, etc.—**Maryland**—State Roads Comn., Baltimore, G. C. Uhl, chn., to Lansdell Co., 173 Main St., Hackensack, N. J., oiling 254.203 mi. hy. involving 1,246,905 gal. oil, Dist. 3A, 7 and 8A, Anne Arundel Calvert, Charles, Howard, Prince George and St. Mary's Counties $59,851, 47.97 mi. hy. involving 99,033 gal. oil, Dists. 3, 5 and 8, Anne Arundel, Howard, Montgomery and Prince George Counties $4,842, 36.17 mi. hy. involving 81,514 gal. oil, Dist. 4-A, Baltimore and Harford Counties $3,896; to Southern Asphalt Co., North Blvd. and Ellen Rd., Richmond, Va., oiling 4.52 mi. hy., involving 10,741 gal. oil, Dist. 6—Garrett and Washington Counties, $781; to Cooper Bros., Salisbury, oiling 19.31 mi. involving 42,545 gal. oil, Dists. 1 and 2, Caroline Cecil, Dorchester, Queen Anne and Somerset Counties, $2,310. Grand total $71,680. Noted Mar. 10.

WATER PIPE, etc.—**Malden, Mass.**—Street & Water Dpt., City Hall, furnishing water pipe as specified, to U. S. Pipe & Fdry. Co., 71 Bway., New York, drain pipe, to Portland Stone Ware Co., 80 Federal St., Boston, edgestones, to H. L. Fletcher Co., West Chelmsford, est. exceeds $25,000; furnishing sand as required to Garden City Sand & Gravel Co., 124 Bright St., Waltham, at $0.93 per cu.yd., total est. $5,000 or more.

WATER PIPE—**Springfield, Mass.**—Bd. Water Comrs., H. Kirk, supt., c.i. centrifugally cast water pipe, to R. D. Wood & Co., 400 Chestnut St., Phila., Pa., $6,664; valves, to Chapman Valve Co., 71 A St., South Boston, $3,690; brass, to Mueller Co. Walnut Ave. and East 135th St., New York, $626. Grand total $10,980. Noted Mar. 10.

ROAD OIL, etc.—**Winona, Minn.**—City Council, 100,000 gal. road oil and 20,000 gal. cutback asphalt, to Standard Oil Co., Winona, at $0.059 and $0.0631 respectively. Noted Mar. 10.

TRAP ROCK, etc.—**New Brunswick, N. J.**—Bd. Freeholders Middlesex Co., Court House, to Bound Brook Crushed Stone Co., 9 Clinton St., Newark, 500 tons ¾ in. trap rock at $1.70 per ton; to Bound Brook Crushed Stone Co. and Kingston Quarry Co. (to be divided equally) 1,000 tons screenings "A" trap rock at $1.65 per ton, 1,000 tons ¾ in. rock, $1.60, 800 tons trap rock 1½ in. $1.35, 500 tons 2½ in. $1.35 per ton; to Utility Constr. Co., 84 Paterson St., New Brunswick, 1,500 tons ready mixed cold patching material Type T, f.o.b. mixing plant $10 per ton, 1,500 tons ready mixed cold patching material Type T $11.50, 500 tons bituminous binder $12.50; to Tar Asphalt Service, Inc., Lindeau, 30,000 gal. asphaltic oil Type M.C.O. at $0.14 per gal, 20,000 gal. asphalt cement emulsion Type A.F. $0.098, 10,500 gal. asphaltic oil $0.135; to Koppers Products Co., 75,600 gal. coal tar or water gas tar Type X or U-3 $0.513, 25,300 gal. coal tar or water gas tar Type B or U.B. $0.147; 30,500 gal. Type K.P. or U.D. 1, $0.1925—to Raritan Mercantile Co., Front St., Paterson, 1,000 tons trap rock or dolomite 2½ in. $2.30 per ton, 3,000 tons 1½ in. $2.30, 2,000 tons ¾ in. $2.55, 1,000 tons ½ in. $2.65, 500 tons trap rock or dolomite screenings at $2.60 per ton to Standard Bitulithic Co., foot Brill St., Newark, 1,500 tons bituminous concrete at $14.20 per ton.

ROAD OIL—**Red Bank, N. J.**—Mayor and City Council, 29,917 gal. and 1,000 gal. road oil, to Tar Asphalt Co., Lindenaau St., New Brunswick at $0.1447 and $0.094 per gal. respectively.

CALCIUM CHLORIDE—**Troy, N. Y.**—Dpt. P. Wks., Albany, calcium chloride for 1932, to Solvay Sales Corp., Milton Ave., Solvay, at $24.90 per ton.

PIPE and FITTINGS—**White Plains, N. Y.**—Dpt. P. Wks., 250 tons 3- to 16-in. c.i. pipe and fittings, to Warren Fdry. & Pipe Co., 11 Bway., New York, $8,290.

SEWER PIPE, etc.—**West View, Pa.**—C. A. McClain, secy., Boro Hall, to McCrady Rodgers Co., Investment Bldg., Pittsburgh, 858 ft. 18 in. terra cotta pipe at $0.495 per ft., sixteen 18 x 6 in. Ys $2.10 each, 50 ft. 12 in. terra cotta pipe $0.195 per ft., manhole covers $13 per set, 4,000 common red brick at $13 per 1,000, 5 tons sand $2.70 per ton, 10 bbl. cement $2.65 per bbl., 1 ton sewer joint compound $50 per ton, 200 lb. tarred jute $0.05 per lb., for West View and Ross Twps. Noted Mar. 17.

EQUIPMENT

PROPOSED WORK

PUMPING EQUIPMENT—**Maynard, Mass.**—Town, Bd. Selectmen, soon takes bids new equipment for pumping station, Pumping Station Rd. $15,000. Noted Feb. 25 under "Waterworks."

CHLORINE MACHINE—**Lenoir City, Tenn.**—City purchasing secondary chlorine machine for use in waterworks.

OIL DISTRIBUTOR—**Mankato, Minn.**—City, F. W. Bates, clk., rejected bids Mar. 14, 500 to 800 gal. power oil distributor mounted on truck or delivered ready to be mounted on truck furnished by city.

SLUDGE PUMP—**Fort Worth, Tex.**—City, c/o G. D. Fairtrace, mgr., soon takes bids sludge pump for sewage disposal plant.

PUMP, etc.—**Sarnia, Ont.**—City, installing either 1 motor driven pump and engine or 3 pumps of varying or graded capacity with Diesel engine standby. $12,000. W. B. Beatty, City Hall, engr.

WATER METERS—**Lachine, Que.**—Council plans to submit by-law dembanding installation water meters.

BIDS ASKED

MAINTENANCE EQUIPMENT—**Atlanta, Ga.** —Apr. 20, by State Hy. Dpt., Atlanta, furnishing State Hy. Bd. with year's supply of maintenance equipment, incl. fifty-six 1½ ton dump trucks, enclosed cabs; twelve 5-ton crawler type tractors (3 tractors to be traded in on this item); twenty 8 ft. pull type road graders, engine hitch; 8 high-speed mowing machines, tractor or truck hitch; two 5 to ½ ton three wheel gasoline road rollers; one 10 ft. double disc harrow, tractor hitch; one ¾ cu.yd. gasoline shovel, crawler type; one portable tank car heater, mounted; 5 industrial tractors, wheel

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Equipment (Continued)

type; seven 12 ft. one-man power road graders; forty-eight 8 ft. 3 blade road drags; 3 pick-up trucks, enclosed cabs; 1 portable mud jack, mounted; one 2½ ton four-wheel drive dump truck with 12 ft. underbody road scraper attachment. J. W. Barnett, chn. Hy. Bd.

MAINTAINERS and GRADERS — **Indiana** — Apr. 13, by State Hy. Comn., Indianapolis, 5 to 12 drag type road maintainers to be drawn by light tractor or truck; 6 to 12 road graders with 7 or 8 ft. blade, heavy type, weight not less than 4,000 lb. each. J. J. Brown, dir.

TRACTORS—**Indiana**—Apr. 14, by State Hy. Comn., Indianapolis, 4 to 10 light tractors industrial wheel type with hp. ranging from 8-12 minimum to 18-36 maximum. J. J. Brown, dir.

GENERATOR — **Salem, Mass.** — Pitman & Brown, 40 Bridge St., in market 25 to 35 kw. a.c. generator, 3 phase, 60 cycle, 220 volt.

GRADER—**Austin, Minn.**—Apr. 15, by C. M. Hubbard, aud. Mower Co., one truck trailer patrol grader, 14 ft. mouldboard, etc.

TRACTOR—**Rochester, Minn.**—Apr. 11, by Rochester Twp., one 20 hp. track type tractor, one trailer-type grader of about 5,000 lb. A. B. Williams, town clk.

MOTOR PATROLS—**Bismarck, N. D.**—Apr. 15, by State Hy. Dpt., 6 motor patrols, one road roller, 2 heavy blade graders, cutting edge requirements for 1932.

CONTRACTS AWARDED

CIRCUIT BREAKERS — **Pasadena, Calif.** — City Council, circuit breakers for municipal light and power plant, to Kelman Electric Co., 1650 Naud St., Los Angeles, $10,100.

PUMP—**Glencoe, Minn.**—City, 140 gal. vertical turbine pump with motor, to Crane Co. of Minnesota, 5th St. and Bway., St. Paul, $1,543. Noted Mar. 17.

METER TESTING MACHINES — **Mankato, Minn.**—City, meter testing machine ⅝ in. to 6 in. complete with scales, tank, adapters, etc., to H. W. Clark Co., Mattoon, Ill. Noted Mar. 17.

CHLORINATORS — **Pittsburgh, Pa.** — E. G. Lang, dir. P. Wks., City-County Bldg., furnishing, installing chlorinators in Roberta Lang, Arlington, and Beaulah Kennard, Schenley, and Riverview Pools and Oliver Bath House, to John A. Galbreath, 606 Herron Ave., $15,260; Olympia Park Chlorinators, to S. S. White, 1827 Perrysville Ave. N. S. Pittsburgh, $2,224.

CONTROL EQUIPMENT—**Pittsburgh, Pa.**—City, E. G. Lang, dir. Dpt. P. Wks., City-County Bldg., furnishing, delivering control equipment and connections for 14 motor operated valves, outdoor lighting, safety equipment and appurtenances for Bureau of Water-Brilliant Electric Pumping Station, to Franklin Electric & Constr. Co., 117 1st Ave., $4,196.

BLOWER — **Toronto, Ont.** — City, blower, motor, piping, etc., in connection with dust collecting system at city asphalt plant, to Canadian Sirocco Co., Windsor, $6,700.

FOREIGN

Palestine, Haifa—Bata Shoe Mfg. Co., Praha (Prague) Czechoslovakia, plans shoe manufacturing plant 2,000 pairs daily capacity, and workers village.

Union Socialist Soviet Republics — Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, plans 6 palaces of culture, educational and recreation centers in Nizhni Novgorod Region. $2,600,000.

Union Socialist Soviet Republics — Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, 196 new vocation schools and living quarters for 10,000 students. $11,600,000.

Union Socialist Soviet Republics — Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, hydro-electric power project on Vyg River, in Karelia, to supply additional power in Leningrad Dist., by day labor and technical aid contracts. To exceed $10,000,000.

Commercial Buildings

PROPOSED WORK

Calif., San Francisco—Goodyear Tire & Rubber Co., 6701 South Central St., Los Angeles, sketches Class A salesroom, office and loft building, in vicinity of 11th and Mission Sts. $150,000.

Conn., East Haven (br. New Haven)—St. Vincent de Paul's Roman Catholic Parish, J. J. Broderick, pastor, 163 Beacon Ave., brick, stone church, Main St. $150,000. Architect not appointed.

Conn., West Haven (br. New Haven)—St. Paul's Roman Catholic Parish, M. F. Barry, pastor, plans by G. Zunner, 182 High St., Hartford, brick, stone church, 1st Ave. $150,000. Basement completed.

Ill., Chicago—Bd. Educ. sketches by J. C. Christianson, 188 North Randolph St., 2 story, basement, 150 x 300 ft., rein.-con., brick school, plain found., 41st St. and Lake Park. $300,000. **Maturity in fall.**

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Ill., Chicago—Community Twp.—Bd. Educ., H. J. Yost, pres., Argo, sketches by Ashby, Ashby & Schulz, 1511 Jackson Blvd., Chicago, 2 story, basement irregular sized rein.-con. brick steel stone high school addition plain found. 63rd and Argo Aves. $150,000.

Ind., Rockville—School Comrs. plans by H. L. Fillinger, Dana, 2 story, basement, brick, steel grade school. $150,000. Noted Apr. 9.

Ind., West Lafayette (br. Lafayette)—Purdue University soon lets contract 2 story, basement, 60 x 230 ft. engineering building. $200,000. W. Scholer, Lafayette, engr.

Kan., Leavenworth—Bd. Educ., S. E. Nirdlinger, pres., plans by Feth & Hazelwood, 419 Delaware St., Leavenworth, and Felt, Dunham & Kriehn, 300 West 47th St., Kansas City, Mo., rein.-con., brick, stone high school $175,000. Voted $120,000 bonds for same. Noted Mar. 17.

Me., Bangor—Owner, c/o V. Hodgins, archt., 39 Hammond St., soon takes bids 5 story, basement, 100 x 135 ft., brick, steel apartment, plain found., Feench St. To exceed $150,000.

Md., Chestertown—H. P. Hopkins, archt., 10 East Mulberry St., Baltimore, soon lets contract 2 story basement, brick, structural steel, concrete hospital, for New Kent & Upper Queens General Hospital, J. White, Chestertown, interested. $300,000.

Mass., Adams—Berkshire Co. Comn., 76 East St., Pittsfield, brick, stone registry of deeds and district court building. $150,000. Architect not appointed.

Mass., Boston—City of Boston, Dpt. School Buildings, 2 story, basement, brick, stone addition to Mechanic Arts High School. $250,000-$275,000. Architect not appointed.

Mass., Boston — Massachusetts College of Pharmacy, 179 Longwood Ave., plans by Kilham, Hopkins & Greeley, 9 Park St., 1 and 3 story, basement, brick college additions, Longwood Ave. $150,000 or more.

Mass., Boston — Trimount Dredge Co., 10 State St., replacing floating power plant, recently destroyed by fire. $100,000.

Mass., Brookline—Town, E. R. Caverly, supt, schools, sketches by Kilham, Hopkins & Greeley, 9 Park St., Boston, 2 story, basement, brick high school addition, Greenough St. $340,000.

Mass., Cambridge—Harvard University, A. L. Lowell, pres., Coolidge, Shepley Bulfinch & Abbott, Ames Bldg., Boston, and soon takes bids Fogg Art Museum addition. $150,000. Noted Jan. 7.

Mass., Chelsea (br. Boston) — American Legion, Chelsea Post 34, Shurtleff St., sketches by Eisenberg & Feer, 11 Beacon St., Boston, American Legion building, Shurtleff St. $150,000 or more. Noted Oct. 29.

Mass., Marblehead—Town, Hospital Trustees, plans by Andrews, Jones, Biscoe & Whitmore, 50 Congress St., Boston, 2 story, basement, 50 x 130 ft., brick, stone, steel hospital, plain found. $150,000 or more.

Mass., Newton—Andover-Newton Theological Institution, E. C. Herrick, pres., 169 Institution Ave., sketches by Kendall, Taylor & Co., 142 Berkley St., Boston, dormitory for married students, on campus. $150,000.

Mass., Somerset—Town, H. F. Bates, supt. schools, Junior and Senior High School, 2 story, basement, brick, County St. $150,000-$175,000. Architect not appointed.

Mass., Templeton—Town, H. W. Ames, 21 Park St., 2 story, basement school. $125,000-$150,000. Architect not appointed.

Mass., Watertown — Town, School Bd., 2 story, basement, brick, stone school, North Watertown Sect. To exceed $150,000. Architect not appointed.

Mass., Watertown—Town, Building Com., G. E. Taylor, 2 story, basement, brick school between North Beacon and Arsenal Sts., Riverside-Riverton Sect. $125,000—$150,000. Architect not appointed.

Mass., Wellesley—Town, Bd. Selectmen, 2 story, basement, brick, stone grade school, Seldon Brown School Dist. $150,000—$175,000. Architect not appointed.

Mass., West Stockbridge — Novitiate of St. Stanislaus, J. E. Lyons, rector, altering and constructing addition to Boy's Normal School. $150,000. Architect not appointed.

Mass., Westwood—Town, A. H. Williamson, supt. schools, plans Junior and Senior High School, 2 story, basement, brick, High St. $150,000 or more. Architect not appointed.

Mass., Weymouth—Town, P. T. Pearson, supt. schools, sketches by H. S. B. Prescott, 12 Pearl St., Boston, 2 story, basement, brick, stone school, Washington and Middle Sts. $150,000—$200,000. Noted Jan. 7.

Mass., Winthrop — Town, School Bd., new school. $150,000. Architect not appointed.

N. J., Newark—P. A. Cunnius, archt., 1441 Bway., New York, soon lets contract altering present building, and constructing 2 story, basement, brick, steel, stone, granite front addition, plain found., 5757 Orange St., for owner, c/o W. T. Grant Co., lessee, 1441 Bway., New York, $150,000.

N. J., North Bergen—North Bergen Auto & Electric Supply Co., 883 Bergenline Ave., will not build 2 story, basement store and dance hall, 879-81 Bergenline Ave. $150,000. F. Huberti, 116 Hauxhurst Ave., Weehawken, archt. Taking bids now on revised plans for smaller project. Noted Dec. 24.

N. Y., Huntington—Huntington Hospital, c/o I. R. Swezey, Huntington, plans by Crow, Lewis & Wick, 200 5th Ave., hospital. To exceed $200,000. Noted Aug. 20.

N. Y., New York—Town Center House Realty Corp., c/o J. D. Burns, Phila., Pa., or c/o Cherry & Matz, archts., 232 Madison Ave., bids in June general and separate contracts hotel to exceed 11 story, tower, 329 West 45th St. $250,000.

N. Y., New York — Womens National Republican Club, Inc., 6 and 8 East 37th St., bids in fall general contract 9 story club house, stores, on 50 x 100 ft. site, 3-5 West 51st St. $300,000. F. R. King, archt., T. E. Blake assoc. archt., both at 18 East 48th St. Noted Dec. 3.

N. Y., Suffern—Bd. Educ., Washington Ave., sketches by L. C. Licht, 4 Dean St., Englewood, N. J., and takes bids about May, Junior and Senior High School, 2 story, basement, brick, steel, rein.-con. $200,000. Election Apr. 16 to vote on bond issue for same. Noted Feb. 2.

N. Y., West New Brighton—Bd. Educ., 500 Park Ave., New York, sketches by W. C. Martin, Flatbush Ave. extension and Concord St., Brooklyn, School 49, 2 story, basement, brick, steel, Cleveland St., Crescent and Beachwood Aves. $265,000.

Pennsylvania—Combined School Districts of Allegheny, Blair, Freedom, Juniata and Frankstown Twps., Newry and Duncansville Boros. J. F. Kaufmann, chn., Duncansville, vocational high school, probably between Duncansville and Hollidaysburg. $175,000. Architect not appointed.

Pa., Phila.—F. G. Shattuck Co., lessee, 58 West 23rd St., New York, bids after May 15, restaurant, office, catering and candy store, 1216 Chestnut St. $350,000. C. E. Birge, 29 West 34rd St., New York, archt. Noted Mar. 24, under "Contracts Awarded.'

Pa., Phila.—Owner, c/o American Federation of Full Fashioned Hosiery Workers, 2530 North 4th St., plans by Kastner & Stonorov, 501 Lexington Ave., New York, apartment. $1,000,000.

R. I., Cumberland—Sisters of Mercy of the Union and the U. S. of America, c/o W. A. Hickey, pastor, 30 Fenner St., Providence, mother house, Broad St. $150,000 or more. Architect not appointed.

Man., Winnipeg—Winnipeg Pub. School Bd., F. A. Allden, secy., William and Ellen Sts., technical high school. $500,000.

B. C., Vancouver — Sisters of Charity of Providence (St. Pauls Hospital), Burrard St., plans by Gardner & Mercer, 330-31 Birks Bldg., concrete, brick hospital addition (south wing), plain found. $500,000. **Maturity indefinite.**

Ont., Kingston—W. E. McNeil, vice-principal, Queens University, soon lets contract altering, repairing, fireproofing, 2 story, basement, concrete, brick, marble, tile, stone arts building. $175,000. C. Drever, 81 Brock St., archt.

BIDS ASKED

Conn., Darien—Town, H. J. Case, chn. Police Dpt., bids about Apr. 15, 2 story, basement police station, Hecker Ave. B. P. Wilson, 769 East 236th St., New York, archt.

Me., Skowhegan—Apr. 27, by State, H. C. Hanscom, dir. Institutional Serv., detention building addition at Reformatory for Women.

Md., Crownsville—Apr. 13, by H. G. Crisp & J. R. Edmunds, Jr., archts., Calvert Bldg., Baltimore, altering and constructing 3 story, basement, 51 x 110 ft., brick, reinforcing steel, rein.-con., cast stone, structural steel ward building addition. $200,000. H. F. Doeleman, Baltimore Trust Bldg., Baltimore, engr.

Mass., Roxbury—See "Contracts Awarded."

Mass., Somerville (br. Boston)—City, Mayor's Office, taking new bids 2 story, basement, concrete, brick police station and garage, plain found., Union Sq. $250,000. Former bids rejected. Hefferman & Gray, 175 High St., Boston, archts. Noted Jan. 28.

N. H., Manchester—Manchester Post American Legion, West Bridge St., bids May 1, altering and constructing 3 story, basement, brick legion club house addition, plain found., Elm St. $150,000. A. W. Osberg, 795 Elm St., archt. Noted Mar. 17.

N. J., Carlstadt—Apr. 19, by Bd. Educ., C. J. Brown, pres., School 1, for Grade and Junior High School, 2 story, basement, brick, steel, Washington St. $150,000. G. F. Bial, 241 Bell Ave., Hasbrouck Heights, archt. Noted Feb. 2.

N. J., East Orange—See "Contracts Awarded."

N. J. Summit—F. W. Woolworth Co., Franklin Trust Bldg. Phila., Pa., taking bids altering and constructing 1 story, basement, brick, steel store addition 407-9 Springfield Ave. $150,000.

N. Y., Flushing—See "Contracts Awarded."

N. Y., Mariner's Harbor — See "Contracts Awarded."

N. Y., Schoharie — Apr. 14, by Bd. Educ., Central School Dist. 1, towns of Schoharie, Middleburg, Carlisle, Esperance, and Wright, Schoharie Co. and Knox, Albany Co., general contract altering and constructing addition to school here. J. R. White, 109 State St., Albany, archt.

N. Y., Sparkill—Apr. 25, by H. G. Emery, archt., 275 Piermont Ave., Nyack, 2 story, basement, brick, steel, stone school addition, for Bd. Educ., Union School Dist. 3 of Oringetown High School, Piermont. $150,000.

Commercial Buildings (Continued)

CONTRACTS AWARDED

Calif., Arcata—State of California, c/o State Dpt. P. Wks., Sacramento, general contract 3 story, rein.-con. training school at State Teachers College, to A. Sordal, Long Beach, $112,441; electrical work, to Matson-Seabrooke Co., 4115 Bway., Oakland, $8,156; plumbing, to J. J. McDermott, 1100 35th St., Sacramento, $6,688; heating and ventilating, to W. H. Robinson, Monterey Park, $17,414. Grand total $144,699. Noted Feb. 25.

Calif., Beverly Hills—Los Angeles Bd. Educ., high school addition, Olympic Blvd. and Spaulding Dr., to F. Shofner, 5670 Wilshire Blvd., Los Angeles, $122,928.

Calif., Los Angeles—Canada Dry Ginger Ale, Inc., Central Manufacturing Dist., manufacturing plant, part of vast expansion, increasing capacity to ten times present volume of 90,000,000 bottles per year, Loma Vista and District Blk., to W. P. Neil Co., 4814 Loma Vista Ave. Est. $150,000.

Ill., Chicago — Motorists Assn. of Illinois, 3254 South Michigan Blvd., masonry on substructure for 6 story, basement, 111 x 175 ft. athletic club, 2400-30 Michigan Ave., to Ebenholtz & Co., 1720 North California Ave. Michelson & Rognstod, archts., 3256 Franklin Blvd., soon award separate contracts. Bids in on plumbing, heating. Total est. $1,000,000. Liebermon & Hein, 190 North State St., engrs.

Ind., Indianapolis—State Library Comn., at office L. J. Bailey, secy., State Capitol, general contract 2 story, basement, 168 x 172 ft., rein.-con., steel, limestone library and historical building, to W. P. Jungclaus Co., 825 Massachusetts Ave., $450,200; book stacks and shelving units, to Art Metal Constr. Co., Jamestown, N. Y., $52,260; heating, ventilating, plumbing, to Freyn Bros., 1028 North Illinois St., $69,210; elevators, to Otis Elevator Co., 11th Ave. and 26th St., New York, $15,150; electric wiring and fixtures, to C. L. Smith Electric Co., 122 South Pennsylvania Ave., $28,690. Grand total $615,510. Noted Feb. 25.

Me., Union—Town, H. Grinnell, chn. Building Com., 2 story, basement, brick combination high and grade school, to W. T. Smith & E. Curtis, Rockland. Est. $150,000.

Mass., Boston—City, Dpt. School Buildings, 3 story, basement, steel, concrete, brick public Latin school for boys, plain found., to John Bowen Co., 129 Newbury St., $672,000. Noted Mar. 10.

Mass., Cambridge—Geo. A. Fuller Co. (contractors), 11 Beacon St., Boston, awarded subcontracts, for work at Rindge Technical High School, 500 tons structural steel, to New England Structural Steel Co., 38 Chauncy St., Boston; 500 tons reinforcing steel (superstructure), to Jos. T. Ryerson, 2558 West 16th St., Chicago, Ill.; reinforcing (foundation work), to Concrete Steel Co., 294 Washington St., for City School Comn. Noted Feb. 18, under "Contracts Awarded."

Mass., Roxbury — P. Glazer, 146 Chiswick Rd., Brighton, 4 story, basement, brick, stone, steel apartment, plain found., Crawford St., separate contracts. $150,000. Sheinfeld & Felderman, 46 Cornhill, Boston, archts.

Mich., Detroit—F. Eurich, Jr., archt., Hoffman Bldg., general contract 10 story, basement, 100 x 198 ft., rein.-con., steel headquarters building, plain found., to Walbridge Aldinger Co., 1300 Buhl Bldg.; heating, to Glanz & Killian, 1761 West Forest Ave. Est. $400,000. Noted Feb. 4.

Nev., Reno—Washoe Co., (1st unit) brick, concrete hospital, to W. M. Kennedy, 400 East Taylor St., Reno, $93,165. Noted Feb. 25.

N. J., East Orange—Essex Real Estate & Constr. Co., P. Brodenson, in charge, 487 South Orange Ave., Newark, 3 story, basement, brick, steel apartment, garage, 335-37 North Parkway, separate contracts. $150,000. Garrabrants & Zumbusch, 380 Main St., archts.

N. J., Newark—P. C. Reilly, archt., 111 5th Ave., New York, general contract 1 story, basement, brick, steel church, 16th Ave. and South 7th St., to E. M. Waldron, Inc., 40 Park Pl., for St. Ann's Roman Catholic Church, 16th Ave. Est. $150,000. Noted Feb. 18.

N. Y., Flushing—A. Edkins & H. Hiller, 107-63 114th St., 42 brick detached dwellings, 195th St. and 50th Ave., separate contracts. To exceed $150,000.

N. Y., Mariner's Harbor—Italian Methodist Church, S. Buzzaline, pastor, 12 Fairview Ave., West New Brighton, 1 story, basement, brick, steel, stone church and Sunday school, separate contracts. $150,000. R. W. Gardner, McKeel Ave., Tarrytown, archt.

N. Y., New York—Todd, Robertson & Todd Engineering Corp., 347 Madison Ave., air conditioning equipment in 2 theatres in Radio City, to Carrier Eng. Corp., 850 Frelinghuysen Ave., Newark, N. J., for Metropolitan Square Corp., 60 Bway. Est. exceeds $600,000. Noted Mar. 19.

O., Wickliffe—Bd. Educ., M. Beebe, clk., 2 story, basement, brick, steel, concrete high school addition, Euclid Ave., to Charles Peterson Constr. Co., 4500 Euclid Ave., Cleveland. Est. $150,000. Noted Mar. 10.

Pa., Mount Alto—State Dpt. Property & Supplies, Harrisburg, general contract 2 new units at Mt. Alto Tuberculosis Sanitarium, to J. A. Frielino & Co., Leechburg, $149,453; heating, to C. C. Kottcamp & Son, 523 West Market St., York, $17,233; electrical work, to A. Rockafeller Co., Mt. Carmel, $14,450; plumbing, to Philadelphia Piping & Equipment Co., 1605 Rockland St., Phila., $16,400; elevators in infirmary, to Otis Elevator Co., 502 North 19th St., Phila., $7,330; additions to power plant and laundry, to J. W. Pomraning, Mechanics Trust Bldg., Harrisburg, $5,936; mechanical work, to Kauffman Plumbing & Heating Co., Waynesboro, $22,440. Grand total $233,242.

Va., Richmond—University of Virginia, 3 story biology building, to A. E. Perrin, 221 West Graham Rd. Est. $150,000.

Ont., Kitchener—Pub. Utilities Comn., V. S. McIntyre, mgr., 189 King St., 3 story, 50 x 95 ft., steel, stone, hollow tile office, to W. H. Yates Constr. Co., 17 Main St. E., Hamilton. Est. $150,000. Noted Jan. 21.

Ont., Toronto—Bd. Educ., 155 College St., 3 story, basement, addition to Oakwood Collegiate Institute, masonry, to Venn & Evans, 127 Mavety St.; carpentry, to J. W. Hudson & Co., 2355 Dundas St. W.; structural steel, to General Steel Constr. Co., 2318 Gerrard St. E.; ornamental iron, to G. B. Meadows Ltd., 479 Wellington St. W.; roofing and sheet metal, to A. B. Ormsby Co. Ltd., 172 Van Horne St.; hollow metal doors, to Otis-Fenson Elevator Co., 170 Bay St.; marble, tile, terrazzo, to Art Mosaic & Tile Co., 619 King St. W.; electrical work, to Canada Electric Co., 175 King St. E.; plumbing, heating, ventilating, to Robert Jordan, 37 Hazelton Ave. Est. $160,000. Noted Dec. 10.

Industrial Buildings

PROPOSED WORK

Conn., Mystic—Mystic Ice Co., F. Bergman, mgr., Noank Rd., Noank, completed plans 20 ton daily capacity ice manufacturing plant, brick. $40,000. Private plans.

Ill., Chicago—Commonwealth Edison Co., 72 West Adams St., plans by Graham, Anderson, Probst & White, 80 East Jackson Blvd., 1 story, irregular sized, brick, stone transformer house, 35th and South Crawford Sts.

Ia., Sumner—City, c/o E. A. Wismer, clk., bids about June, complete power and light plant. $95,000. Bonds voted for same. Plans will be ready about May. H. L. Long & Co., 1034 Redick Tower, Omaha, Neb., engr. Noted Mar. 17.

Miss., Charleston—See "Waterworks."

N. J., South Amboy—Titanium Pigment Co., 60 John St., W. F. Meredith, in charge, 60 John St., New York, plant machine shop. $1,000,000.

N. Y., Brooklyn—Albermarle Heights Building Corp., 63 Church Ave., sketches by B. Driesler, Jr., 153 Remsen St., gas station and service garage, 705 Gravesend Ave. $100,000.

N. Y., Brooklyn—B and M Cleaning & Dyeing, Inc., soon lets separate contracts altering 2 story, plant and installing fuel equipment, New Lots Ave. and Powell St. H. Hansen, 462 East 28th St., archt.

N. Y., Brooklyn—Greenreen Realty Corp., B. Greenthal, pres., 493 Bushwick Ave., plans by J. Fein, 1797 Pitkin Ave., two 2 story, 50 x 90 ft. buildings containing storage, dance hall, stores, etc., Church Ave. and East 94th St.

N. Y., Brooklyn—Todd Dry Dock Eng. & Repair Co., foot 23rd St., altering and improving dry dock and ship repairing plant. To exceed $40,000. **Maturity soon.**

N. Y., Brooklyn — Trunz Park Stores, 25 Lombard St., sketches by Almendinger & Schlendorf, 11 Hanover Pl., 3 story, 60 x 78 ft. storage building and foundation and alteration to 2 story building, Lombard St. and Kingsland Ave. To exceed $50,000.

N. Y., Middletown—Horton Ice Cream Co., Inc., 205 East 24th St., New York, sketches 2 story, basement, ice cream plant, brick, steel, on 205 x 254 ft. site, Monhagen Ave. $40,000. Site purchased.

Pa., Phila.—George A. Fuller Co., general contractors, Morris Bldg., soon takes bids 700 tons structural steel and other separate contracts for garage for Franklin Savings Fund, c/o general contractors.

Tenn., Lawrenceburg — City, c/o J. H. Stribling, soon lets contract 1 story, 140 x 220 ft. shirt factory, brick, 40,000 sq.ft. floor space. To exceed $40,000. Sallant & Sallant, Inc., Knickerbocker Ave., Brooklyn, N. Y., lessee. Noted Mar. 31.

Va., Alexandria — Ford Motor Co., 2674 Schafer Rd., Dearborn, Detroit, Mich., soon lets general contract 1 story, 200 x 400 ft. motor car manufacturing plant, $1,000,000. A. Kahn, 1004 Marquette Bldg., Detroit, Mich., archt. For 600 tons structural steel awarded to Belmont Iron Wks., 22nd St. and Washington Ave. Noted Feb. 18.

Ont., Toronto—Owner, c/o B. T. Babbitt Co., lessee, 386 4th Ave., New York, will construct manufacturing plant to lessee's specifications, excavation in progress. $40,000. Lessee will purchase equipment.

BIDS ASKED

Conn., Greenwich—Town, bids about May 1. 2 story, brick, steel garage, plain found., Mianus St. $40,000 or more. C. W. Hubbard, 115 Greenwich Ave., archts. Noted Jan. 28.

Conn., New London — See "Contracts Awarded."

Fla., Fellsmere—See "Contracts Awarded."

Fla., Sarasota—Apr. 11, by Kress Stores, Inc., 114 5th Ave., New York, storage and stores.

Ga., Rossville—See "Contracts Awarded."

Mass., Reading—Town, Bd. Selectmen, 1 and 2 story, brick garage and storehouse. $40,000.

Mass., Springfield—H. E. Puggioli, 27 Border St., taking bids altering 3 story, 65 x 105 ft., brick, concrete service station and sales room, 12-14 Liberty St. To exceed $40,000. J. W. Foster, 75 Narragansett St., archt.

N. Y., New York—See "Contracts Awarded."

Tex., San Antonio—Knowltons Creamery, c/o S. E. Knowlton, 1415 West Summit Ave., resumed plans and taking bids 1 and 2 story, brick, rein.-con. creamery plant, plain found., Fredericksburg Rd. $45,000. Adams & Adams, Western National Bldg., archts. Noted Oct. 22.

CONTRACTS AWARDED

Conn., New London—Connecticut Co., Norwich, 1 story, brick, steel, concrete bus garage, Montauk Ave. Owner builds under supervision of Company's chief engr.

Conn., Versailles—Crystal Ice Co., Versailles, 101 West Main St., Norwich, 1 story, 60 x 90 ft. ice manufacturing plant, brick, steel, to John A. Monty, 9 Farnsworth St., New London. Est. $50,000.

Fla., Fellsmere—Fellsmere Sugar Co., 1 story cane sugar mill addition, day labor after May 1. $40,000.

Ga., Rossville—Peerless Woolen Mills, 3 story, 100 x 300 ft., brick, concrete plant addition, incl. warehouse and processing plant, plain founds.; day labor and separate contracts. $100,000. Noted Mar. 10.

Ill., Chicago—Firestone Tire & Rubber Co., 1920 South Michigan Ave., general contract 1 story, 100 x 175 ft., rein.-con., steel, stone super-service station, to Austin Co., 510 North Dearborn St. Est. $50,000. Noted Feb. 18.

Mass., Framingham—Coburnville Garage, C. Fantony, 373 Waverly St., 1 story, 60 x 124 ft., brick sales and public garage building, Waverly St., to Oliva Bros., 410 Union Ave. Est. $40,000. Noted Feb. 4.

Mass., South Boston—Boston Wharf Co., 259 Summer St., Boston, reconstructing 2 story, brick, concrete storehouse, recently destroyed by fire, 336 Congress St., to C. A. Dodge Co., 2 Erie St., Cambridge. $150,000 or more.

Nev., Las Vegas—P. Hesse, general contract 120 x 140 ft. garage, to Lobe & Mangraum, Las Vegas, $25,000. Noted Feb. 25.

N. J., Paterson—Radiance Piece Dye Wks., 3rd Ave., general contract 1 and 2 story, basement, 100 x 190 ft. dye plant addition, 3rd Ave. and 26th St., to J. Susano, 115 Pine St. Est. $40,000 or more.

N. S., Canso—Nova Scotia Sea Foods, Inc., 500 5th Ave., New York, W. C. Merrill, at premises (Canso), in charge, altering and constructing addition to wharf, at fish plant, to S. W. Hagerty, Monastery. Est. exceeds $50,000. Owner now purchasing equipment for adapting former Robinson Glue Co. to its purposes.

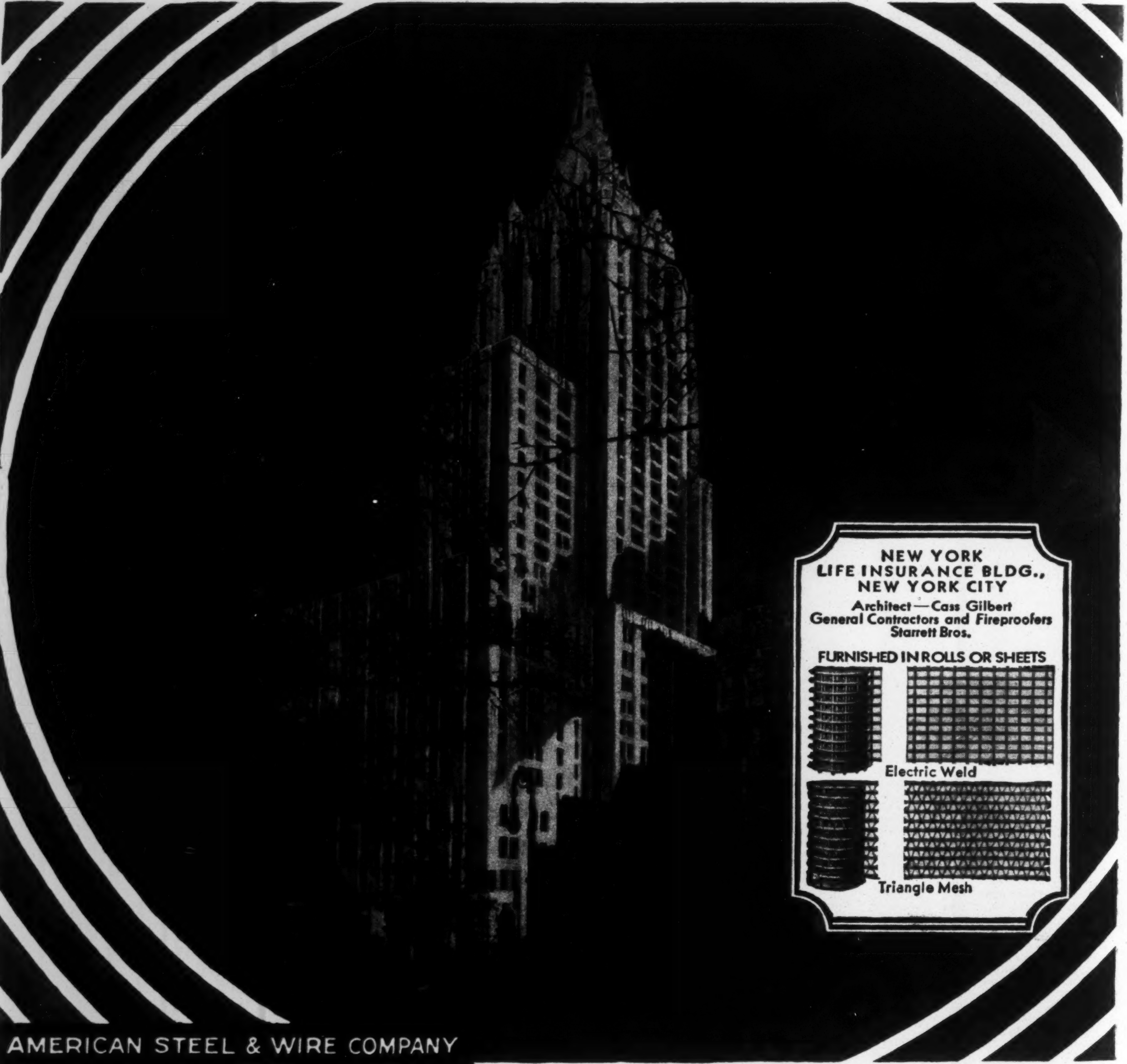
Ont., Amherstburg—Simrall Refining Co. of Canada, c/o J. J. MacLennan, Standard Bank Bldg., Toronto, 2,500 bbl. per day petroleum products refinery, general contract, to Foster-Wheeler Ltd., 25 King St. W., Toronto; steel storage tanks, to Horton Steel Wks., Northern Ontario Bldg., Toronto; erecting brick, steel boiler house, pumphouse, etc., to Pinch & Bailey, 400 Gladstone Ave., Windsor. Est. $100,000.

Ont., Dunnville — Dominion Fabrics, Forest St., structural steel for 1 story, 190 x 210 ft., brick, concrete, steel factory addition, to Standard Steel Constr. Co., Port Robinson; sprinklers, to Sprinkler Supply Co., 8 Essex St., Toronto; plumbing and heating, to Robert Fitzsimmons Co., 21 Rebecca St., Hamilton. Noted Feb. 25, under "Contracts Awarded."

Ont., Toronto—City, 2 story, concrete, brick motor vehicle repair shop, Strachan Ave., masonry, to Hawken & Kelly, 681 Dovercourt Rd., $126,011; carpentry, to Brown Constr. Co., 148 King St. W., $19,481; roofing and sheet metal, to A. Matthews, 256 Adelaide St. W., $6,868; plumbing and heating, to W. J. McGuire, 91 Jarvis St., $35,600; sprinklers, to Grinnell Co. of Canada Ltd., 2440 Dundas St. W., $3,979; electric contract, to Canada Electric Co., 175 King St. W., $8,891; painting and glazing, to Cheshire & Hulme, 64 Birch Ave., $6,933; Grand total $207,763. Structural steel, to Reid & Brown, Fleet St.; radial brick chimney, to Frances Hankin Co., 165 Spadina Ave.; ash hoist and crane, to Herbert Morris Crane & Hoist Co., 230 Bay St. Total est. $210,987.

Ont., Toronto—Toronto Hydro-Electric System, 225 Yonge St., general contract 80 x 50 ft. and 50 x 100 ft. concrete, brick, steel electrical substation, 40 ft. high, to Joseph Wilde & Co., Canadian Pacific Railway Bldg.; excavation, to Lione & Co., 69 Prescott Ave.; structural steel, to John T. Hepburn Co., 18 Van Horne St.; cut stone, to Ritchie Cut Stone Co., 159 Bay St. Est. $50,000, not incl. equipment. Owners will purchase and install all electrical and substation equipment.

See proposal advertising on page 80



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CONSTRUCTION NEWS

SECTION OF ENGINEERING NEWS-RECORD—APRIL 14, 1932

WATERWORKS

PROPOSED WORK

Calif., Los Angeles—See "Dams."

Colo., Denver—Bd. Comrs. Denver Water System, electrified pumping station, South University **Blvd. and East Jewell Ave.** $200,000, part of **$1,500,000** investment project. R. Ewing Stiffler, archt., 1925 Ivanhoe St., designed the station. Noted Mar. 24.

Ill., Geneva—City, 300,000 gal. steel tank on tower. $20,000. **Maturity in late spring or early summer.** Wells Eng. Co., Court House, engr.

Ky., Covington—Covington Water Co., plans purchasing 1 car load 6- to 30-in. valves, 25 hydrants, alum and lime, 300 new meters, and spend $3,000 for construction labor.

Mass., Newton—City, Mayor's Office, sketches by C. J. S. White, 825 Beacon St., Newton Centre, altering and constructing 1 story, brick pump house addition, Newton Upper Falls. Weston & Sampson, 14 Beacon St., Boston, engrs.

Mont., Miles City—City, plans replacing with c.i. pipe 12 blocks of galvanized water pipe. R. Stewart, city engr.

N. Y., Bayside—Dpt. Water Supply, Gas & Electricity, Municipal Bldg., New York, plans re-equipment water wells. Application pending before State Water Control Bd.

N. Y., Brooklyn—Dpt. Water Supply, Gas & Electricity, Municipal Bldg., New York, pumping plant, incl. building, equipment, Coney Island. $400,000. Funds will be available for project.

N. Y., New York—Dpt. of Water Supply, Gas & Electricity, Municipal Bldg., electrification pumping plant, Amsterdam Ave. and 179th St. $250,000 available.

N. Y., Tonawanda—Town Bd. Water Supply Dist. 7 plans watermains. Town authorized to issue $150,000 bonds. Governor signed bill.

Pa., Pittsburgh — City Council plans waterworks improvements, $102,000, incl. placing 24 in. mains on new South 10th Street Bridge before sidewalk is placed $49,000; changes in line adjacent to bridge approaches; connections between mains at South 15th and Carson Sts. and junction line of Mission Street Pump Station, $16,000; repairing leaks in 48 in. line crossing Allegheny River at 26th St. $5,000; filter repairs $7,500, also various minor items. **Maturity soon.** C. M. Reppert, City-County Bldg., engr.

S. D., Madison—C. H. Simpson, Jr., city aud., improving waterworks, incl. installing two new 300,000 gal. towers, 10 in. watermain loop. C. A. Trimmer, city engr.

Utah, Salt Lake City—Preliminary plans 10 m.g. open type rein.-con. reservoir replacing Sunnyside Reservoir. $75,000. W. D. Beers, city engr.

Wash., Kittitas—J. R. Bannon, engr., 710 Alaska St., Wenatchee, received no bids Apr. 4, well and steel tank on tower, pump house and pipe, for City. $25,000. Terms half cash and half water revenue bonds. Noted Mar. 3.

W. Va., Charleston—West Virginia Water Serv. Co., 4 mi. pipe line intake. $300,000.

Ont., Kingston—Public Utilities Comn., C. C. Folger, mgr., 625,000 gal. water tank.

BIDS ASKED

Ark., Osceola—See "Contracts Awarded."

Mass., Braintree—See "Contracts Awarded."

Minn., St. Louis Park — Apr. 25, by H. Carleton, village clk., one 12 in. well, 50 ft. deep; 100,000 gal. steel tank on 125 ft. tower. $20,000. Alexander & Bradley, 410 New York Life Bldg., Minneapolis, engrs. Noted Dec. 24.

Miss., Natchez—Apr. 28, by Bd. Water Comrs., Natchez Water Works, P. O. Box 143, C. T. Brasfield, chn., repairing, cleaning, painting 600,000 gal. municipal elevated water tank and tower, also furnishing, delivering painting materials for same; adv. E. N.-R. Apr. 14.

Mo., St. Louis—May 10, by Bd. P. Serv., City Hall, four 150 x 150 ft. rein.-con. pre-sedimentation basins and one 330 x 406 ft. sedimentation basin at Howard Bend Waterworks Station on Missouri River, near Hine, Mo. $425,000. J. B. Dean, 1640 South Kingshighway, div. engr.

N. J., Paterson—Apr. 19, by Passaic Valley Water Comn., 156 Ellison St., constructing under 2 contracts pipe line in Paterson, Clifton, Garfield and Lodi. Fuller & Everett, 25 West 43rd St., New York, engrs.

N. Y., Warwick—Apr. 26, at office Dpt. Social Welfare, C. H. Johnson, Comr., State Office Bldg., Albany, water supply at New York State Training School for Boys; adv. E. N.-R. Apr. 14.

Pa., Kriders Corner—See "Streets and Roads."

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CONTRACTS AWARDED

Ark., Osceola—Osceola Light & Power Co., water filter, 40,000 gal. capacity, filtered through 14 in. porous concrete and 3 ft. coke to remove sulphur and iron from water, own forces under supervision A. Baker, supt. Metal sheet work, awarded to Dan Shea Boiler Wks., Osceola. Est. $3,500.

Mass., Braintree—Town, Bd. Selectmen, extending watermains, Granite Ave., day labor. $20,000. H. E. White, Town Hall, engr.

Mont., Kalispell—Water Dpt., laying 10,645 ft. 6- to 20-in. mains, to O'Connor & Humphrey, Great Falls, $7,074. Noted Mar. 17.

N. D., Williston — City, general contract waterworks, to J. P. Murphy, Williston, $44,900; filter equipment, to E. W. Bachrach Co., 207 Rialto Bldg., Kansas City, Mo., $9,450; clarifier, to Dorr Co., 247 Park Ave., New York, $2,730; pumping equipment, to Dayton Dowd Co., 247 Park Ave., Quincy, Ill., $2,490. Grand total $59,570. Noted Mar. 24.

Pa., Bethlehem—For 400 tons 6 and 12 in. c.i. pipe for waterworks to Warren Fdry. & Pipe Co., 11 B'way., New York and Phillipsburg, N. J.

Tex., Muenster—City, c/o Secretary, waterworks improvements, incl. 3,790 ft. 8 in., 6,802 ft. 6 in. and 8,100 ft. 2 in. c.i. pipe, tank and tower, to Hutton & Hess, Muenster, $27,100. Noted Mar. 29 Daily.

Tex., San Antonio—Woodlawn Dist., installing 12,000 lin.ft. 1- to 3-in. c.i. water lines in new Monticello Park sub-division, to San Antonio Waterworks System, 108 West Market St., $7,000; furnishing, installing 16,000 lin.ft. 2- to 6-in. natural gas pipe line, to San Antonio Pub. Serv. Co., St. Marys St., $8,000.

Wis., Verona—See "Sewers."

Alta., Calgary—City, heating and chemical plant, pumping station and screen house, to Bennett & White, Calgary, $168,906.

SEWERS

PROPOSED WORK

Conn., New Britain—Preparing plans storm sewer 24 ft. wide and 9 ft. deep, length of Munroe St. empty into pond. $30,000. City proposes bond issue of $100,000 to cover work. E. N. Humphrey, Bd. P. Wks., engr.

Ill., Lansing — City pumping station and treatment plant. $125,000. **Maturity in late fall.** Consoer, Older & Quinlan, 205 West Wacker Dr., Chicago, engrs.

Me., Sanford—Town, Bd. Selectmen, sewerage system. $25,000 or more.

Mass., Arlington—Town, Bd. Selectmen, extending sewerage system, $51,000 appropriated; storm drains and sidewalk edgestones, $18,000 appropriated.

Minn., Hutchinson—Sewage disposal plant. $70,000. E. C. Briggs, 438 Bremer Arcade Bldg., St. Paul, engr.

Mo., St. Louis—Bd. P. Serv., City Hall, preliminary plans Poplar Street Outlet Sewer, rein.-con. or brick pipe. $55,000. W. W. Horner, city engr.

Neb., Omaha—City and J. B. Hummel, park comr., preliminary plans 2,500 lin. ft. 18- to 30-in. storm sewer in Benson Park. H. Beal, city engr.

N. J., North Bergen—Bd. Township Comrs., Township Hall, municipal sewage disposal plant. $25,000 or more. **Maturity indefinite.** R. Glenn, Township Hall, engr.

Pennsylvania—West View Twp., H. P. McKown, engr., Boro Bldg., West View. Millvale Twp., S. H. Burns, engr., 215 Williams St., Millvale, Ross Twp., McCully Eng. Co., engrs. Berger Bldg. Pittsburgh, and Shaler Twp., F. G. Ross, engr., 309 4th St., Pittsburgh, bids about May, Gertys Run Sewer, incl. 27,000 ft. 15- to 30-in. and 600 to 700 ft. 12 in. concrete or terra cotta pipe. $200,000. Noted Dec. 24.

Pa., Erie—City plans sanitary sewers in east and west sides. $165,000. Also resurfacing Buffalo Rd. $20,000; watermains in Buffalo Rd. $10,000. H. L. Munger, Erie, engr.

Pa., Girard—Plans completed sewage disposal plant. $36,000. Bids will probably not be taken this year. Hill & Hill, North East, engrs.

Texas—J. Beretta, c/o Natl. Bank of Commerce Bldg., San Antonio, chn. Property Owners Organization (being effected), for purpose securing sanitary sewers for additions (residential) of Park Hill Estates, Olmos Park Estates, Park Place, Olmos Park Terrace, now outside of San Antonio limits. Surveys, estimates, soon. $200,000.

Tex., Ozona—City, plans surveys and bond election $22,000 sanitary sewerage system. Address City Council. Will still consider proposal of any individual or interested parties for construction of system, according to own plans submitted. Noted Aug. 20.

Tex., Tyler — City, c/o L. H. Powell, mgr., received no bids Apr. 1, enlarging present sewage disposal plant. Will meet Apr. 8 to set date for bond election. H. L. Thackwell, Jacksonville, engr. Noted Mar. 24.

Ont., Hamilton — Preparing plans concrete, brick, steel, pumping station, with electric driven sewage pumps, near McKittrick Bridge. $183,000. W. L. McFaul, Hamilton, engr. Work now under way for construction of force mains.

BIDS ASKED

Md., Baltimore — Apr. 20, by Bd. Awards, sanitary sewers and storm drains in Sewer Dist. H-11, Sanitary Contr. 280, incl. 100 ft. 19 ft. 6 in. x 4 ft. 6 in. rectangular rein.-con. drain, 2,320 lin.ft. 3 ft. 6 in. x 3 ft. 6 in. rectangular rein.-con. sewer, 3,285 lin.ft. 2 ft. 9 in. x 2 ft. 9 in. and 3 ft. 6 in. x 4 ft 6 in. rectangular rein.-con. sewer. G. E. Finck, Municipal Bldg., sewerage engr.

Minn., Worthington—Apr. 20, by City, sewage disposal plant. $50,000. Buell & Winter, 503 Insurance Exch., Sioux City, Ia., engrs. Noted Aug. 20, 1931.

Neb., Omaha—See "Contracts Awarded."

N. J., Newark—Apr. 21, by Joint Meeting, City Hall, sewer junction chamber in Supplementary Joint Trunk Sewer for certain municipalities in Essex and Union Counties, consisting transition section as well as maintenance of sewage flow in Joint Trunk Sewer and maintenance of traffic at Bayway and Brunswick Ave. in Elizabeth. A. Potter, 50 Church St., New York, ch. engr.; adv. E. N.-R. Apr. 14.

N. J., Trenton—Apr. 19, by Hamilton Twp. Com., Greenwood Ave., drainage system for East State St. $25,000. C. S. Sincerbeau, American Mechanic Bldg., engr.

N. Y., Long Island City—Apr. 18, by G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., sewers in 114th Dr., Cross Island and New York Blvds., 21st, 23rd, 116th, 112nd Aves., 69th, 73rd, 74th, 78th, 98th, Stanhope, 164th, 194th, Monterey Sts.

N. Y., Northport—Apr. 25, by Village Bd., Village Hall, C. Van Pelt, clk. Portions sewer system. M. Vrooman, Gloversville, engr.; adv. E. N.-R. Apr. 14. Noted Mar. 31.

N. Y., Ossining—Apr. 26, at office Dpt. Correction, W. N. Thayer, Jr., comr., State Office Bldg., Albany, constructing sewers and water lines at Sing Sing Prison, $18,004; adv. E. N.-R. Apr. 14.

O., Norwalk—May 7, by City, sewage disposal plant, on Old Plank Rd., 1 mi. north of city. $200,000.

Pa., Kriders Corner—See "Streets and Roads."

Va., Richmond—Apr. 18 (extended date), sewer Cary St., between 8th and 12th Sts. and 12th St., between Cary and Canal Sts., $40,000; Floyd Ave. between Shields Ave. and Meadow St. and Meadow St., from Floyd Ave. to alley, $10,000; Lombardy St., between Leigh and Wickham Sts., $7,000; Bainbridge St., between 8th and 10th Sts. and 9th St. from Bainbridge St. 105 ft. north, South Richmond, $7,000. Noted Apr. 7.

See proposal advertising on page 69

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Sewers (Continued)

CONTRACTS AWARDED

Calif., Los Angeles—Bd. P. Wks., City Hall, constructing Sect. 34-D, North Outfall Sewer, to B. A. Wattson, 1026 McCadden Pl., $50,990. Noted Jan. 21.

Md., Baltimore—Bd. Awards, sanitary sewers and storm water drains in Sewer Dists. H-9, H-10, H-11 and H-12, Sanitary Contr. 288, incl. 2,820 lin.ft. 6 x 4 ft. rectangular rein.-con. drain, 440 lin.ft. 42 in. diam. rein.-con. pipe drain, 500 lin.ft. 18 and 21 in. vitr. pipe drain, 3,000 lin.ft. 15 in. vitr. pipe sewer and drain, 24,285 lin.ft. 6 and 8 in. vitr. pipe sewer, to N. Martell, 440 Vesta Ave., $63,533. Noted Mar. 24.

Mo., St. Louis—Bd. P. Serv., City Hall, Sect. B-4, Western Mill Creek Public Relief Sewer, to W. A. Riley Constr. Co., 6221 Olive Blvd., $45,273; Sects. B-7 and B-8 same sewer, to Martin & Reilly, Hampton and Robert Aves., $36,295 and $31,399 respectively; Sect. A3, Maline Creek Public Sewer, to S. Kraus Co., 645 Edmund St., $8,787. Grand total $121,754. Noted Feb. 25.

Mo., St. Louis — Bd. P. Serv., City Hall, Rosedale Ave. Public Sewer and Manchester Ave. Pub. Relief Sewer, to Frazier-Davis Constr. Co., Arcade Bldg., $32,434 and $30,622 respectively. Noted Mar. 17.

Pa., Johnstown—City Council authorized construction of 12 mi. 8 in. terra cotta sanitary sewers, by day labor. $200,000. Bids will be advertised for materials. $20,000. H. L. Wilson, City Hall, engr. Noted Feb. 25, under "Contracts Awarded."

Pa., Meadville—City, 2,200 lin.ft. 4 x 5¼ ft. concrete box storm conduit in Linden St., to E. E. Austin & Son, 1919 Reed St., Erie, $19,219. Est. $25,000. Noted Mar. 3.

Wis., Granville—Town Bd., 12,428 ft. 8- to 18-in. sanitary sewers in Hampton, Cedarburg and Fond du Lac Rds., to Wenzel & Henoch Co., 5061 West State St., Milwaukee, $17,663. Noted Mar. 17.

Wis., Verona — Village, well, to McCarthy Well Co., 670 Eustis St., St. Paul, Minn., $3,150; cast iron pipe and fittings, to Amer. Cast Iron Pipe Co., 712 Plym. Bldg., Minneapolis, Minn., $8,056; hydrants and valves, to Ludlow Valve Mfg. Co., 228 North LaSalle St., Chicago, Ill., $2,068; gate valves, to Rensselaer Valve Co., 53 West Jackson Blvd., Chicago, Ill., $1,010; laying sewers and watermains, to E. M. Scheflow, Elgin, Ill., $18,978; tank, to Chicago Bridge & Iron Co., 37 West Van Buren St., Chicago, Ill., $3,920; pumping station, to Parkinson Constr. Co., 3513 Highland Blvd., Milwaukee, $5,749; deep well and turbine pump, to A. D. Cook, Lawrenceburg, Ind., $810. Grand total $43,741. Noted Mar. 17.

Ont., Fort William — City, foundations for activated sludge sewage disposal plant, day labor; 2 raw sewage pumps and 2 sludge pumps, to Canadian Allis-Chalmers, 212 King St. W., Toronto, $6,485; 2 sludge collectors, to Francis Hankin Co. Ltd., Spadina Ave., Toronto, $5,580; 17 sluice gates, to Canada Iron Foundries Ltd., Fort William, at $187.25 each. Est. $200,000.

Ont., Islington—Etobicoke Twp., 0.6 mi. 15- to 21-in. vitr. tile storm sewers in Church St. Area, to Ronco Bros., 224 Rosemount Ave., Toronto. Est. $25,000.

BRIDGES

PROPOSED WORK

Del., Wilmington—New Castle Co. Comn., 129 ft. triple span stringer bridge, Churchmans Road Crossing. A. W. Shaw, Wilmington, Del.

Kan., Humboldt—Bd. Supervs. Allen Co., Iola, preliminary plans concrete, steel bridge to replace iron bridge, near here. $26,837. A. W. Young, Court House, Iola, engr.

Mass., Concord—Town, Dpt. Roads & Bridges, reconstructing concrete bridge, Elm St. $25,000. W. F. Kussin, River St., engr.

New Jersey—State Hy. Bd., Trenton, bridge over Shark River, at Main St. between Belmar and Avon. $400,000.

New York—A. W. Brandt, comr. Hys., Albany, constructing 60 ft. plate girder type bridge, approaches at Fonda, Montgomery Co. $50,000—80 ft. plate girder bridge, approaches, at Camden, Oneida Co., $41,000—55 ft. plate girder bridge, approaches, at Mohawk, Herkimer Co., $25,000—85 ft. plate girder bridge, approaches, and 60 ft. plate girder bridge, approaches near Amsterdam, Montgomery Co., $65,000.

O., Cleveland—State, O. W. Merrell, hy. dir., rein.-con. bridge over Brookpark Rd. $400,000. J. O. McWilliams, Western Reserve Bldg., div. engr.

Utah—State Hy. Comn., Salt Lake City, viaduct over railroad on Saltair Hy., near Black Rock. $70,000. H. S. Kerr, state road engr.

Wash., Seattle—Comrs. King Co. bids in May, two 220 ft. canteliver span concrete steel bridges over Green River. $80,000. T. D. Hunt, Seattle, co. engr.

Wis., Milwaukee—Dpt. P. Wks., City Hall, did not open bids Mar. 23, 35th St. Viaduct owning to court appeal. Noted Mar. 17.

Man., Riverton—Province of Manitoba, Hon. W. R. Clubb, minister P. Wks., Parliament Bldgs., Winnipeg, vehicular bridge over Islandic River. E. W. M. James, bridge engr., and M. A. Layons, ch. engr., both Parliament Bldgs., Winnipeg.

Ont., Toronto — Preparing plans replacing Dundas St. W. Bridges over Canadian Pacific Ry. and Canadian Natl. Ry., tracks, replacing present structures, involving 85 ft. span through plate girder or truss bridge, and 340 ft. bridge, 2 or 3 through truss spans, each to have concrete deck, steel floor beams, concrete piers and abutments. $415,000. R. C. Harris, City Hall, engr.

Ont., Toronto—Bids in May, 144 ft. single steel truss span bridge, 66 ft. wide, with centre truss, concrete flooring and abutment, steel floor beams, to replace bridge over Don River, Eastern Ave. $152,000. R. C. Harris, City Hall, engr. Noted Oct. 15.

BIDS ASKED

California—See "Streets and Roads."

Calif., Los Angeles—Apr. 20, by Bd. P. Wks., City Hall, replacing present bridge with 2 span 526 ft. rein.-con. rigid frame type bridge with 30 ft. roadway, 5 ft. sidewalk over Venice Blvd. and Pacific Electric Railway tracks at West Blvd., incl. 174 tons reinforcing steel, 2,915 cu.yd. concrete, removing present bridge, grading, curbing, guttering, sidewalks, storm drains, lighting standards and units, 7,240 sq.ft. oiled roadway. $75,000. J. J. Jessup, City Hall, engr. Noted Jan. 28.

Calif., Ventura — City Council, bids about June 2, Meta Street Cut-off, incl. new bridge, street improvement, straightening hy. $620,000. City will pay $100,000, Ventura Co. $30,000, and state will pay balance toward cost. Noted Jan. 28, under "Streets and Roads."

Connecticut—May 2, at office J. A. Macdonald, state hy. comr., Hartford, concrete, steel bridges for eliminating grade crossing at Main St., and rein.-con. and waterbound macadam paving 1,372 ft. approaches, Thomaston. State to furnish rein.-con. pipe, cement, bronze lanterns and wiring for same; adv. E. N.-R. Apr. 14.

Illinois—Apr. 27, by State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, 28 ft. rein.-con. slab, one 50 ft. and two 28 ft. span rein. con. girder one 60 ft. and two 30 ft. span rein.-con. girder bridges, Route 60, Sect. 116-B McHenry Co.—55 ft. rein.-con. girder, three 11 ft. rein.-con. culverts Route 70, Sect. 102-B-1 Winnebago Co.—rein.-con. substructure, Sect. 106-B two 100 ft. steel superstructures, Sect. 106-C, 18 ft. rein.-con. slab, Sect. 107-B, all Route 93, Stark Co.—one 20 ft., one 40 ft. rein.-con. slabs, 40 ft. rein.-con. girder, rein.-con. substructure, Sect. 117-B—one 100 ft., one 125 ft. steel superstructures, Sect. 117-C, both Route 100, Scott Co.—rein.-con. substructure, 50 ft. steel superstructure, Route 104, Sects. 122-B and C Pike Co.—60 ft .rein.-con. girder, eight 50 ft. span rein.-con. substructure with 8 rein.-con. girder approach spans, 175 ft. steel superstructure, Route 121, Sects. 108-B and C Tazewell Co.—six 43 ft. span rein.-con. substructure, 6 steel I-beam approach spans, eight 10 ft. rein.-con. culverts, 100 ft. steel superstructure, Route 132, Sects. 105-B and C, Moultrie Co.—rein.-con. substructure, four 50 ft. rein.-con. girder approach spans, 200 ft. steel superstructure, Route 150, Sects. 131-B and C, Jackson and Union Counties. F. T. Sheets, ch. hy. engr.

Illinois—May 10, at office Dpt. Purchases & Constr., Springfield, substructure for Smith's Hy. Bridge at Channahon, Contr. B7; operator's houses for 5 rolling lift bridges in Joliet, Contr. B19; adv. E. N.-R. Apr. 14.

Indiana—Apr. 26, by J. J. Brown, dir. State Hy. Comn., Indianapolis, 2 bridges on Rd. 35, Brown Co.—2 on Rd. 25, Carroll Co.—1 on Rd. 44, Fayette Co.—2 on Rd. 150, Floyd Co.—2 on Rd. 32, Hamilton Co.—5 on Rd. 67, Knox Co.—1 on Rd. 15, Kosciusko Co.—5 on Rd. 6, Laporte Co.—1 on Rd. 6, Marshall Co.—3 on Rd. 14, Pulaski Co.—2 on Rd. 46, Ripley Co.—2 on Rd. 48, Sullivan Co.—1 on Rd. 159, Vigo Co.

Ia., Harlan—Apr. 18, at office Auditor Shelby Co., multiple span I-beam bridge, alternate three 45 x 20 ft. spans on concrete piers, concrete floor, or four 36 x 18 ft. multiple spans, creosoted piling, creosoted floor and asphalt plank wearing surface, also 36 x 20 ft., 36 x 18 ft. and 36 x 16 ft. I-beam approach spans on creosoted piling.

Minnesota—Apr. 19, by State Hy. Comn., St. Paul, Bridge 5190, on S.P. 8-48-1, east of Brookston, St. Louis Co.—Bridge 5188, S.P. 58-21-3, Zumbrota, Goodhue Co.—Bridge 5211, S.P. 66-22, Appleton, Swift Co., all concrete.

Mass., Boston—May 3 by City, Dpt. P. Wks., rebuilding steel, concrete bridge over Boston & Albany R.R., Arlington St. J. A. Rourke, comr.

O., Columbus—May 4, by Comrs. Franklin Co., F. L. Donnally, clk., three 100 ft. spans, rein.-con. and concrete bridge on Harrisburg-Georgesville Rd., involving 850 cu.yd. dry excavation, 1,100 cu.yd. wet excavation, 3,400 cu.yd. channel excavation, 9,000 cu.yd. fill for approaches, approaches and floor to be paved with bituminous macadam. $66,000. C. C. Latimer, Court House, co. surveyor.

CONTRACTS AWARDED

California—C. H. Purcell, engr. State Hy. Comn., Sacramento, three 30 ft. span rein.-con. girder bridge over West Walker River, 24 mi. north of Bridgeport, Mono Co., to C. Ingalls, P. O. Box 1593, Bakersfield, $14,633. Noted Mar. 17.

California — State Hy. Comn., Sacramento, bridge consisting 55 ft. plate girder span and eleven 30 ft. rein.-con. girder spans to be widened over Anaheim Bay near Seal Beach, Orange Co., to Nead Constr. Co., 1033 Avalon Blvd., Wilmington, $49,982. Noted Mar. 10.

Illinois—State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, to Rock Island Bridge & Iron Wks., Rock Island, bridges on Route 94, Sect. 111-B $6,429; Route 94, Sect. 111-C $3,366, both Henderson Co. — to Arcole Constr. Co., Niles Center, Route 54, Sect. 541-H DuPage and Cook Counties $173,165—to McClintic-Marshall Corp., 38 South Dearborn St., Chicago, Route 46, Sect. 462-VC Cook Co. $286,328—to H. R. Cawood, Mt. Vernon, Route 185, Sect. 114-B Fayette Co. $19,995—to Shappert Eng. Co., Belvedere, Route 95, Sect. 123-B Fulton Co. $21,734—to Vincennes Bridge Co., Vincennes, Ind., Route 127, Sect. 110-B Bond Co. $7,259; Route 95, Sect. 123-C Fulton Co. $15,373; Route 95-A, Sect. 107-C Hancock Co. $5,177; Route 108, Sect. 110-C Macoupin Co. $5,415—to Herrick Constr. Co., Carlinville, Route 107, Sect. 107-B Pike Co. $32,615; Route 108, Sect. 111-B Montgomery Co. $6,416; Route 124, Sect. 101-B Sangamon Co. $9,650 — to Zimmerly Bridge Co., Paris, Route 185, Sect. 113-B Fayette Co. $24,810—to R. R. Griffin, Paris, Route 119, Sect. 104-B McLean and Champaign Counties $7,757 — to A. P. Munsen, Marion, Ia., Route 95-A Sect. 106-B $14,003; Route 95-A, Sect. 107-B, $21,009, both Hancock Co.; Route 92, Sect. 140-B Bureau Co. $18,148—to C. F. Smith, Vandalia, Route 185, Sect. 112-B Fayette Co. $5,191—to Strubel & Helmick Constr. Co., Alton, Route 108, Sect. 110-B Macoupin Co. $30,132—to Midland Structural Steel Co., Marion, Route 92, Sect. 140-C Bureau Co. $14,869. Grand total $728,844. Noted Dec. 17, Jan. 14 and 21, and Feb. 25.

Maine—State Hy. Dpt., Augusta, Winnegance bridge over Winnegance Stream, Bath and Phippsburg, involving pile trestle, 2,500 lin.ft. creosoted piling, 41,000 ft. lumber, 122,000 lb. steel, 7,170 cu.yd. fill, dam and spillway, 16,380 cu.yd. fill, 218 cu.yd. concrete, 140 cu.yd. Ashler masonry to F. W. Carlton, Woolwich, dam, spillway $33,059, and pile trestle $23,664. Est. exceeds $25,000. Noted Mar. 24.

Maryland — State Road Comn., Baltimore, single leaf bascule span superstructure for bridge over Neals Sound, connecting Cobb Island with mainland, Cont. Ch-92-184, Charles Co., to Phoenix Bridge Co., Phoenixville, Pa., $3,001. Noted Feb. 25.

Neb., Red Cloud—B. F. Perry, clk., Webster Co., wood, concrete steel bridges to be built during 1932, to General Constr. Co., 332 Peters Trust Bldg., Omaha. Noted Mar. 3:

Tennessee—See "Streets and Roads."

Wash., Seattle—City, constructing East Marginal Way Viaduct, to Fitton & Livergreen, Colman Bldg., $33,152. Est. $35,500.

Wisconsin—State and Burnett and Sawyer Counties, Superior, Crooked Rapids Bridge, Sawyer Co., to R. W. Ohlfs, Ladysmith, $18,571; Woods River Bridge, Burnett Co., to C. Stargardt, Athens, $6,067. Noted Mar. 3.

Wis., DePere—State Hy. & Unemployment Comn., Madison, structural steel for DePere Bridge, to American Bridge Co., 208 South LaSalle St., Chicago, Ill., $110,808. Noted Apr. 7.

STREETS AND ROADS

PROPOSED WORK

Washington—State Hy. Comn., S. J. Humes, dir., Olympia, program for improving roads from now to March 31, 1933, incl. road oiling, etc. 9,500,000; regular maintenance $1,500,000; betterment and reconstruction $1,000,000; 80 mi. grading and draining; 190 mi. grading and surfacing; 90 mi. concrete paving 48 mi. bituminous macadam; 164 mi. bituminous treatment and 563 mi. light bituminous treatment. Total $12,000,000.

BIDS ASKED

California — Apr. 20, by State Hy. Comn., Sacramento fuel oil and asphaltic oil surface treating 80 mi. road between Chapmans and Picketts Junction, between Picketts Junction and Alpine Junction, and between Picketts Junction and Hangmans Bridge near Markleeville in Amador, El Dorado and Alpine Counties—grading, concrete surfacing 6.4 mi. road between point 0.5 mi. west of Cordelia and point near Fairfield, Solano Co.—258 ft. rein.-con. bridge to have one 239 ft. open spandrel arch and six girder approach spans over Rocky Creek, 17 mi. south of Carmel, Monterey Co. J. J. Brown, comr.

California—Apr. 21, by R. E. Pierce, dist. engr. State Hy. Comn., Sacramento, fuel oil treating 36.3 mi. as dust palliative road between Stoddard Springs and Que De Porka, Tuolumne Co.

California—Apr. 21, by F. W. Hazelwood, dist. engr. State Hy. Comn., Redding, heavy fuel oil, treating as dust palliative 30.6 mi. hy. between Delleker and junction with State Hy. Route 29, near Chat, Plumas and Lassen Counties; asphalt road oil treating as dust palliative 18.2 mi. hy. between Buck's Ranch and Quincy, Plumas Co.

California—Apr. 27, by C. H. Purcell, state hy. engr., Sacramento, bituminous treated crushed gravel surfacing 7.3 mi. hy., between San Mateo and Redwood City, San Mateo Co., grading, concrete paving 4.9 mi. hy. between Laguna Beach and Dana Point, Orange Co.

Streets and Roads (Continued)

Calif., San Francisco—Apr. 20, by S. J. Hester, secy. Dpt. P. Wks., grading, asphalt macadam paving 363,700 sq. ft., 2½ in. asphaltic concrete wearing surface 195,000 sq. ft., 4 in. waterbound macadam paving 110,000 sq. ft. Sect. A, Sunset Blvd. $180,000.

Calif., Ventura—See "Bridges."

Connecticut — Apr. 18, by J. A. Macdonald, State Office Bldg., Hartford, state hy. comr., rein.-con. paving 14,532 ft. Milford cutoff, U. S. Route 1, Milford, state to furnish cement and rein.-con. pipe—surface drainage at Fairfield Center on U. S. Route 1, Fairfield, state to furnish rein.-con. pipe—12 ft. span I-beam bridge over Swamp Brook, Route 3, Middlebury; adv. E. N.-R. Apr. 14.

Conn., Hartford—Apr. 19, by Bd. Contr. & Supply, repairing 30,325 sq. yd. sheet ashalt streets. $40,000.

D. C., Wash.—Apr. 20, by District Comrs., District Bldg., asphaltic, concrete or granite block repaving streets; 32,000 sq.yd. cement, concrete roadways.

D. C., Wash.—Apr. 21, by Comrs. District of Columbia, District Bldg., 12,000 cu.yd. concrete sidewalks—20,000 sq.yd. concrete alley pavements—32,000 sq.yd. concrete roadways.

Georgia—Apr. 21, by State Hy. Bd., Altanta, paving 9.5 mi. Athens-Danielsville Rd., Madison Co.—4.973 mi. Douglasville-Villa Rica Rd., Douglas Co. — 4.688 mi. Lexington-Washington Rd., Wilkes Co.—4.482 mi. Warrenton-Thomson Rd., McDuffie Co.—7.762 mi. Thomasville-Moultrie Rd., Thomas Co.—3.089 mi. Toccoa-Seneca (S. C.) Rd., Stephens Co.—grading, concrete paving 5.645 mi. Canton-Jasper Rd., Cherokee Co.—paving, removing 3 bridges, constructing 2 bridges, 13.115 mi. Waycross-Jesup Rd., Pierce and Wayne Counties—12.806 mi. Butler-Thomaston Rd., Taylor Co.—paving 5 bridges on 11.144 mi. Jefferson-Dublin Rd., Laurens Co.—grading, 3 bridges 3.674 mi. Athens-Elberton Rd., Elbert Co.—limerock base and surface treating 9.002 mi. Camilla-Newton Rd., Mitchell Co.—1 overhead bridge, at Rupert, Americus-Butler Rd., Taylor Co. — overhead bridge, Marietta-Canton Rd., and bridge Conton-Jasper Rd., both Cherokee Co.—overhead bridge, on Bremen-Heflin (Ala.) Rd., Haralson Co. $1,500,000-$2,000,000. J. W. Barnett, chn. hy. bd.

Illinois—Apr. 27, by State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, concrete, bituminous filled brick on concrete, bituminous concreet surface (fine or coarse grade aggregate type) on concrete surfacing 0.5 mi. Route 4-A, Sect. D-Y, 18 ft. Will Co.—0.96 mi. Route 12, Sect. 1-X-1, 20 ft. Lawrence Co.—13.38 mi. Route 47, Sect. 104, 20 ft. McHenry Co.—0.45 mi. Route 51, Sect. 511-H-1, 20 and 40 ft. —2.31 mi. Route 63, Sect. 633-Z, 40 ft. both Cook Co.—0.35 mi. Route 53, Sect. 535, 20 and 40 ft. Will Co.—0.15 mi. Route 59, Sect. 106-X, 20 ft. Lake Co.—0.45 mi. Route 64, Sect. 130V-X, 40 ft. DuPage Co.—7.25 mi. Route 70, Sect. 102, 20 ft.—8.29 mi. Route 70, Sect. 103, 20 ft. both Winnebago Co.—0.58 mi. Route 74, Sect. 101-X, 18 ft. Stephenson Co.—8.61 mi. Route 100, Sect. 117, 18 ft. Scott Co. —6.84 mi. Route 122, Sect. 127, 18 ft. Tazewell Co.—11.17 mi. Route 132, Sect. 105, 18 ft. Coles and Moultrie Counties—6.22 mi. Route 144, Sect. 101—9.86 mi. Route 150, Sect. 123, both 18 ft. Jackson Co.—9.45 mi. Route 150, Sect. 131, 18 ft. Jackson and Union Counties—0.94 mi. Route 203-P-10, 18 ft. La Salle Co.—grading, drainage structures 6.94 mi. Route 60, Sect. 116-A, McHenry and Lake Counties—1.04 mi. Route 82, Sect. 128-A, Henry Co.—6.2 mi. Route 93 Sect. 106-A Stark Co.—7.85 mi. Route 104, Sect. 121-A Brown Co.—7.38 mi. Route 104, Sect. 122-A Brown and Pike Counties—6.78 mi. Route 108, Sect. 110-A Macoupin Co. —2.7 mi. Route 121, Sect. 108-A Tazewell Co.—0.18 mi. Route 127, Sect. 105-V-A Montgomery Co.—7.76 mi. Route 148, Sect. 119-A Franklin and Jefferson Counties—2.99 mi. Route 159, Sect. 129-A St. Clair Co. F. T. Sheets, ch. hy. engr.

Ill., Monmouth—Apr. 23, by Bureau County Roads Warren Co., Court House, traffic bound surface course surfacing 2.379 mi. Sect. 7-M.F.T—1.413 mi. Sect. 8-M.F.T.—2.086 mi. Sect. 9-M.F.T.—1.013 mi. Sect. 10-M.F.T., all 12 ft. G. H. Baker, c/o State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, engr.

Ill., Urbana — Apr. 18, by Bureau County Roads Champaign Co., Court House, widening, concrete surfacing 0.7514 mi. Sect. 64W-15d, 9 ft.—0.7386 mi. two 4 ft. strips, Sect. C-W-15d—concrete surfacing 6.0135 mi. Sect. 90-15d, 9 and 18 ft.—1.4545 mi. Sect. 86, 15d, 9 ft.—6.2011 mi. Sect. 189-15d, 9 ft. G. H. Baker, c/o State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, engr.

Ill., Warren—Apr. 23, by Road Comrs. Warren Co., grading, drainage structures, 8 in. gravel surfacing 8 mi. roads in Merwick, Greenbush, Kelly, and Point Pleasant Twps., 12 ft. T. J. Bonderer, Monmouth, engr.

Indiana — Apr. 18, by State Hy. Comn., Indianapolis, furnishing, applying road oil, liquid asphalt or tar to road surface, Invitation 845, Greenfield Sub. Dist.—Invitation 846, Indianapolis and Tipton Sub. Dists.—Invitation 847, Portland Sub. Dist.—Invitation 848, Richmond and Muncie Sub. Dists. J. J. Brown, dir.

Ia., Algona—Apr. 21, at office Auditor Kossuth Co., grading 342,000 cu.yd. secondary road.

Ia., Cedar Rapids—Apr. 21, at office Auditor Linn Co., crushed stone surfacing 7.38 mi. local road.

Ia., Cedar Rapids—Apr. 28, at office Auditor Linn Co., crushed stone surfacing 12.88 mi. local road, 18.27 mi. trunk and local road.

Kansas—Apr. 29, by State Hy. Comn., Court House, Parsons **(P. means Project, K.P. Kansas Project and F.A.P. Federal Aid Project)**, sand gravel surfacing 2.5 mi. P. K6, K.P. 1291 Miami Co.—5.5 mi. U. S. Hy. 36, K.P. 1301—1 mi. P. K7, K.P. 1300, both Bourbon Co. —bituminous material surfacing 7 mi. P. K7, K.P. 1342—11.882 mi. P. K7, K.P. 1343, both Crawford Co. —4.454 mi. P. K96, K.P. 1346, Montgomery Co.—2.481 mi P. K11, K.P. 1347 —4.973 mi. P. K11, F.A.P. 297-B—6.439 mi. P. K11, F.A.P. 297-C—2.976 mi. P. K11, F.A.P. 322-A, B and C, all Greenwood Co.—8.25 mi. P. K47, F.A.P. 119-A—1.638 mi. U. S. Hy. 75, F.A.P. 43-F, both Wilson Co.—4.032 mi. U. S. Hy. 73-W, F.A.P. 113-3, A and D—8.988 mi. same road, Sect. B and E—2.035 mi. P. K6, F.A.P. 328-D, all Anderson Co.—8.691 mi. P. K11, F.A.P. 297-A—0.707 mi. same road, Sect. D, both Elk Co.—3.021 mi. U. S. Hy. 75, F.A.P. 402-D—1.534 mi. same road Sect. D, both Coffey Co. — 0.397 mi. P. K7, K.P. 1339—0.321 mi. U. S. Hy. 73-E, K.P. 1340, both Bourbon Co.—5 mi. P. K7, K.P. 1341—10 mi. P. K7, K.P. 1344—11 mi. P. K7, K.P. 1345, all Cherokee Co.—12.943 mi. P. K96, F.A.P. 2, D and E LaBette Co.—mineral aggregate surfacing 0.614 mi. U. S. Hy. BW, F.A.P. 21-C Allen Co.—1.044 mi. P. K6, F.A.P. 328-E—5.013 mi. F.A.P. 339-D, both Anderson Co.—0.521 mi. U. S. Hy. 73-W, F.A.P. 334-C, Neosho Co.—3.853 mi. P. K38, F.A.P. 339-E, Linn Co. — 10.507 mi. U. S. Hy. 75, F.A.P. 402-C, Woodson Co.—chats surfacing 9.5 mi. P. K33, K.P. 7619—9 mi. P. K33, K.P. 7618—12 mi. U. S. Hy. 50-S, K.P. 7617, all Franklin Co.—7 mi. U. S. Hy. 73-E, Cherokee Co.—8.7 mi. P. K6, K.P. 7615 Anderson Co. —6 mi. U. S. Hy. 75, K.P. 7614 Coffey Co.—7.5 mi. P. K16, K.P. 7613—4 mi. K6, K.P. 7637—9 mi. K39, K.P. 7638, all Neosho Co.—4.5 mi. P. K6, K.P. 7639 Allen Co.—7 mi. P. K39, K.P. 7640 Wilson Co.—6.5 mi. P. K39, K.P. 7641 Bourbon Co.—2.5 mi. U. S. Hy. 166, K.P. 7609—2.5 mi. U. S Hy. 166, K.P. 7609, both Chautauqua Co.—7.5 mi. P. K35, K.P. 7611, Linn Co.—2 mi. K. 35, K.P. 7612, Miami Co. W. V. Buck, Topeka, hy. engr.

Kentucky—Apr. 27, by State Hy. Dpt., Frankfort, grading, drainage structures 5.6 mi. Tyner-Bond Rd., Jackson Co.—9 mi. Eddyville-Cadiz Rd., Lyon Co.—6.9 mi. Eddyville-Cadiz Rd., Lyon and Trigg Counties—surfacing 4.7 mi. Cadiz-Eddyville Rd., Trigg Co.—grading, drainage structures, surfacing 10.3 mi. Russellville-Central City Rd., Logan Co. H. D. Palmore, hy. engr.

Kentucky—See "Contracts Awarded."

Maryland—Apr. 19, by State Roads Comn., G. C. Uhl, chn., Baltimore, sheet asphalt paving 1.14 mi. Contr. BC-116-72, Baltimore City—concrete shoulder and combination concrete curbing and guttering 0.54 mi. Contr. B-246-411 Baltimore Co.—concrete shoulders 2.95 mi. Contr. H-149-411, Harford Co.—concrete paving 1.33 mi. Contr. Q-78-24, Queen Anne's Co.; adv. E. N.-R. Apr. 14.

Md., Baltimore—Apr. 20, by Bd. Awards, concrete paving 12,000 sq. yd. streets listed in Contr. 616. G. Cobb, Municipal Bldg., hys. engr.

Minnesota—Apr. 19, by State Hy. Dpt., St. Paul, concrete paving 164,164 sq.yd. S.P. 7-39-1, Div. A, F.A.P. 367A, and S.P. 7-39-3, F.A.P. 367A — 220,455 sq.yd. S.P. 12-32-1, F.A.P. 402B, and S.P. 12-32-2, F.A.P. 402C—149,786 sq.yd. SP. 30-23, Div. B, F.A.P. 251 and S.P. 30-22, Div. B, F.A.P. 117B—210,111 sq.yd. S.P. 64-24, Divs. B and C, F.A.P. 353A and S.P. 64-22, F.A.P. 353B—211,422 sq.yd. S.P. 64-23, F.A.P. 353C and S.P. 30-21, Div. A, F.A.P. 222—grading 453,000 cu.yd. S.P. 7-41-2 —625,000 cu.yd. S.P. 19-25, Div. A, 413,910 cu.yd. S.P. 29-24-1 — 225,780 cu.yd. S.P. 37-21-4—37,866 cu.yd. S.P. 45-25.

Minnesota—Apr. 19, by State Hy. Dpt., St. Paul, conclete paving 117,400 sq.yd. S.P. 4-47, Div. A, F.A.P. 405A and S.P. 8-25, Div. D, F.A.P. 57—237,960 sq.yd. S.P. 8-34, F.A.P. 302 and S.P. 8-52, Sect. 1, F.A.P. 278, S.P. 30-27, Div. B F.A.P. 271—247,546 sq. yd. S.P. 8-52-2, F.A.P. 278, S.P. 8-42, F.A.P. 302B and S.P. 8-39, Div. A, F.A.P. 302B—177,600 sq. yd. S.P. 30-29 F.A.P. 50 and S.P. 30-27, Div. A, F.A.P. 271. Former bids rejected. State furnishes cement. Noted Mar. 24.

Mo., Clayton — Apr. 20, by St. Louis Co., Court House, grading, paving 3 mi. Clayton Rd., $178,[illegible]0—asphalt paving ½ mi. Musick Ave., $28,1[illegible]0—Old Bonhomme Rd., $21,640—Woods Mill Rd., $24,310—concrete paving Hildeschein Ave., $8,620—West Ave., $2,630—macadam paving Glendale Ave. $9,450—Hill-Side Ave., $1,500. R. Jablonsky, Court House, co. engr.

Mo., St. Louis—May 10, by Bd. P. Serv., City Hall, asphalt on concrete paving Market St., and rein.-con. paving driveways in front of Union Station $28,440—asphaltic concrete paving 1,700 sq.yd. Ganett Pl., $6,160—850 sq. yd. Schoenlau Ave., $3,400—grading, concrete paving 5,600 sq. yd. City Blocks 1319, 4178E, 4517N, 5658, 5690, and 5911, $17,980. W. W. Horner, city engr.

Neb., Columbus—Apr. 20, by C. H. Hoge, clk. Platte Co., graveling 37½ mi. and regraveling 7.5 mi. roads. L. W. Weaver, Court House, co. engr.

New Jersey—Apr. 25, by State Hy. Comn., Trenton, grading, curbing, paving Route 25, connecting Link Sect. 8b, Contr. 68, Newark, Essex Co.; adv. E. N.-R. Apr. 14.

N. J., Paterson—Apr. 20 (extended date) by Bd. Freeholders Passaic Co., Court House, repaving various roads and furnishing stone, asphalt, oil and tar. G. Ferguson, Court House, Co. engr.

New York—May 3, by A. W. Brandt, comr. Hys., Albany, improving hys. in Cayuga, Chemung, Schuyler, Dutchess, Livingston, Montgomery, Schoharie and Steuben counties; also reconstructing road in Albany Co.; adv. E. N.-R. Apr. 14.

New York—A. W. Brandt, comr. P. Wks. Albany, bids in May, grading, graveling 12,000 cu.yd. Stonehouse-Indian Castle Hy., Herkimer Co., $143,000—15.28 mi. Wells-Weverton State Hy., Hamilton Co., 18 ft., $550,000—bituminous macadam paving 8.7 mi. Sloansville-Rural Grove State Hy., Montgomery Co., 18 ft., $502,000—grading, bridging, concrete paving 13,500 cu.yd. Vail's Mills-Mayfield State Hy., Fulton Co., $321,000 (road work only)—10,000 cu.yd. Vernon-Verona Station Hy., Oneida Co., $220,000.

New York—A. W. Brandt, comr. Hys., Albany, bids about July, concrete paving 5 mi. Verona Station-State Bridge Hy., Oneida Co., 18 ft. $270,000. L. D. Brownell, 109 North Genesee St., Utica, engr.

N. Y., Brooklyn—Apr. 20, by H. Hesterberg, pres. Brooklyn Boro, Boro Hall, grading Ralph Ave., Ashford and 66th Sts.; grading, asphalt on concrete paving Repose Pl., Foster Ave., Avenue S, East 31st, East 32nd, East 40th, East 86th and 68th Sts.

N. Y., St. George—Apr. 20, by J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous macadam paving Crittenden Pl., Richmond and Belair Rds.; sanitary sewer in Liberty Ave.

N. Y., Warrensburg—May 4, by B. E. Murray, supt. Hys. Warren Co., bituminous macadam paving 4.86 mi. road, 20 ft., in Chester; 4.29 mi. road, 18 ft., in Horicon; adv. E. N.-R. Apr. 14.

Oregon—Apr. 21, by State Hy. Dpt., Salem, maintenance materials on 27.08 mi. Columbia River Hy.—widening 18 mi. Oregon-Washington Hy.—surfacing 21.18 mi. Lake View Hy.—11 mi. old Oregon Trail—constructing grade crossings at Dillon-Columbia River Hy. and at Umatilla Columbia River Hy. R. H. Baldock, Salem, engr.

Pa., Altoona—See "Materials."

Pa., Boston — Bd. Comrs. Allegheny Co., County Office Bldg., Pittsburgh, taking bids grading, one course rein.-con. paving approaches to new Boston Bridge over Youghiogheny River. $72,000. V. R. Covell, County Office Bldg., Pittsburgh, engr. Noted Sept. 17, under "Bridges, Pittsburgh."

Pa., Kriders Corner—Blum, Weldin & Co., engrs., 417 Grant St., Pittsburgh, taking bids (selected list of bidders), laying out new development called Epworth Fresh Air Farm, incl. slag surfacing roadways, water lines, sewers, for City. $25,000.

Texas—W. A. Wurzbach, judge Bexar Co. and County Comrs., Court House, San Antonio, returned bids of Apr. 4 unopened, ½ in. asphalt surfacing 100,000 yd. Hy. 3, and surfacing, hard paving in Precinct 1, on account of technical violation in advertising for bids. Will probably readvertise. W. S. Goodman, San Antonio, co. engr.

Tex., Dallas—Apr. 28, by Dallas Co., asphalt treating Irving-Fort Worth Rd. from end of Industrial Blvd. to Old Irving Rd. 10.2 mi. Kessler Outer Blvd. from Forth Worth Pike to Beckley Rd. R. C. Clinger, Dallas, Co. engr.

Vermont—Apr. 22, by State Hy. Dpt., State House, Montpelier, concrete paving 5.3 mi. hys. in Woodstock, Hartland and Hartford, Project 108-A.

Va., Richmond—Apr. 19, by Dpt. P. Wks., grading, graveling, curbing, guttering Commonwealth and Altamount Aves., Grace St., et al $200,000; also preparing plans smooth paving $100,000.

Washington—Apr. 26, by S. J. Humes, dir. Hys., Olympia, concrete paving 0.8 mi. State Rd. 12, Pacific Co. — grading 6.1 mi. Grand Coulee Hy., Grant Co.—grading, surfacing 3.6 mi. Vashon Island Hy., King Co.—572 ft. steel bridge over Skykomish River and Great Northern R.R. tracks, Snohomish Co.

Wash., Chehalis — Comrs Lewis Co., bids about Apr. 28, grading crushed stone surfacing 3 mi Salzer Valley Hy. 24 ft. $25,000. R. L. Greene, Chehalis, co. engr.

Wash., Ephrata—Apr. 27, by Comrs. Grant Co., Court House, crushed graveling 4.84 mi. Lateral Hy. 8. A. B. Humason, Ephrata, co. engr.

Wyoming—Apr. 20, by State Hy. Comn., Cheyenne, grading, oil treating 14.262 mi. Newcastle-Moorecroft Rd.—2.663 mi. Newcastle-Lead Rd.—15.32 mi. Newcastle-Lusk Rd., all foregoing West Co.—21.757 mi. Lusk-Van Tassel Rd., Niobrara Co.—19.392 mi. Worland-Manderson Rd.—2.168 mi. Worland-Tensleep Rd., both Big Horn and Washakie Counties—34.873 mi. Cheyene-Torrington Rd., Laramie Co.—grading, graveling 9.746 mi. Diversion Dam-Dubois Rd., Fremont Co.—19.83 mi. Wheatland-Glendo Rd., Platte Co.—reconstructing roadbed 19.83 mi.

Streets and Roads (Continued)

Wheatland-Glendo Rd., Platte Co.—reconstructing 13.122 mi. Moorecroft-Carlile Rd., Crook Co.

Ontario—Apr. 25, by Dpt. P. Hys., R. M. Smith, deputy Minister, Parliament Bldg., Toronto, concrete paving 7 mi. hy., Listowel to Palmerston, Contr. 32-03—6.2 mi. Troy, West to Galt Rd., Contr. 32-04 or mixed macadam paving Contr. 32-06 same road Contr. 32-06—concrete paving 9 mi. Collingswood East to Stayner, Contr. 32-05 or mixed macadam paving same road Contr. 32-07 — grading 20 mi. road between Amherstburg and Kingsville, Contr. 32-08—bridge north of Teeswater, Contr. 32-09 —bridge 6 mi. east of Amerstburg Contr. 32-10 —bridge 2 mi. east of Harrow, Contr. 32-11—bridge over Maitland River, north of Montton, Contr. 32-12—bridge over Laggan River, north of Alexandria, Contr. 32-13—culvert, Orland to Salt Creek, Contr. 32-14—culvert from Kingsville to Malden east limits, Contr. 32-15—culvert Amherstburg to Malden East Limits, Contr. 32-16—culvert Clinton to Wingham, Contr. 32-17—curbing, guttering 3,000 ft. north of Midhurst Corners, Contr. 32-18. $500,000-$600,000. A. A. Smith, Parliament Bldgs., Toronto, ch. engr.

Ont., Kirkland Lake—Apr. 18, by C. H. Fullerton, deputy minister, Dpt. Northern Development, Parliament Bldgs., Toronto, clearing, grading, fill, close cutting 10.4 mi. Larder Lake-Cheminis Rd., in Hearst, McVittie and McGarry Twps. $35,000. J. Sinton, Parliament Bldgs., Toronto, engr.

CONTRACTS AWARDED

California—State Hy. Comn., Sacramento, clearing, and grubbing 5.1 mi. right-of-way between Inspiration Point and Vine Hill Rd., Santa Cruz Co., to F. W. Nighbert, 10 H St., Bakersfield, $15,980; grading, asphaltic concrete surfacing 0.4 mi. Glenn Co. to Clark and Henery Constr. Co., Chancery Bldg., San Francisco, $21,843.

California—State Hy. Comn., Sacramento, grading, concrete paving 7.5 mi. hy. between Bostonia and Chocolate Creek, San Diego Co., to Bodenhamer Constr. Co. P. O. Box 643, Oakland, $219,535—4.8 mi. hy. between Newport Beach and Corona Del Mar, Orange Co., to Jahn & Bressi Constr. Co., Lane Mortgage Bldg., Los Angeles, $104,291—oil treated crushed gravel or stone paving 3.7 mi. hy. between Bulthe and Ehrenberg Bridge, Riverside Co., to Lee Moor Constr. Co., El Paso, Tex., $131,866—furnishing, and applying fuel oil and asphaltic road oil 32.2 mi. hy. between Mountain Pass and Yosemite Park, Tuolumne and Mariposa Counties, to C. W. Wood, P. O. Box 1435, Stockton, $7,880 —constructing groynes, 1 mi. northwest of Santa Monica, Los Angeles Co., to R. R. Bishop, Long Beach, $9,867—shoulder oiling 11.1 mi., bituminous treated crushed gravel surfacing 1 mi. and dust oiling 14.5 mi. hy. between Bakersfield and Junction Arvin Rd. and dust oiling 9.5 mi. hy. between westerly boundary of Kern Co. and 2.7 mi. west of Maricopa, both Kern Co., to Granite Constr. Co., Watsonville, $9,491 and $4,141 respectively. Grand total $487,071. Furnishing and stockpiling crushed gravel or stone screenings near Longvale on Redwood Hy., Mendocino Co. to Basalt Rock Co., Napa.

Calif., San Jose — H. Pfister, clk. Santa Clara Co., asphalt surfacing 34,175 sq.ft. Race St. and 157,700 sq.ft. Capitol Ave. et al., to A. J. Raisch, Burrell Bldg., $19,587.

Calif., Santa Barbara—City Council, curbing, sidewalks, 7 x 5 x 5 x 7 in. concrete paving 265,000 sq.ft. Mission and Chino Sts., et al., to Western Motor Transfer Co., 116 State St., $66,711.

Connecticut—J. A. Macdonald, hy. comr. State Office Bldg., Hartford, waterbound macadam paving 10,078 ft. hy. Scotland, to Guyotte Constr. Co., 109 Church St., New Haven, $14,566—1,235 ft. Trumbull, to A. Lambo, 238 Plank Rd., Waterbury, $4,687—rein.-con. paving 7,390 ft. Stratford, to New Haven Road Constr. Co., 70 College St., New Haven, $68,225—twin 42 in. rein. con. pipe culvert, Trumbull, to Holbrook Co., Westbrook Conn., $3,742—drainage improvement on Litchfield Rd., Washington, to G. Kaylor, Washington, $1,040. Grand total $92,260. Noted Mar. 31.

Connecticut — J. A. Macdonald, state hy. comr., Hartford, special hy. repair work, bituminous macadam paving in Bridgeport, Fairfield, Stratford, Westport and Southport, to Leverty & Hurley, 500 Waterview Ave., Bridgeport. Est. exceeds $25,000.

Conn., Middletown—Town, Hy. Dpt., laying 1½ mi. waterbound macadam road. $35,000. Owner builds.

Illinois—State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, to S. J. Groves & Sons, Libertyville, concrete surfacing Route 67, Sect. 119, McHenry Co., $140,723—to Central Eng. Co., 809 Putnam Bldg., Davenport, Ia., Route 80, Sect. 107, Whiteside and Carroll Counties $90,173; Route 80, Sect. 109 Whiteside and Rock Island Counties $147,827—to McCarthy Impvt. Co., Kahl Bldg., Davenport, Ia., Route 94, Sect. 111 Henderson Co. $121,666; Route 6, Sect. LW Kane Co. $21,121; Route 107, Sect. 107 Pike Co. $142,588—to Jaicks Bros., 77 West Washington St., Chicago, Route 21, Sect. HR Cook Co. $65,651 — to Hartmann Clark Bros. Co., 920 Peoria Life Insurance Bldg., Peoria, Route 101, Sect. 120-X Schuyler Co. $6,957; Route 71, Sect. 116-7X De Kalb and Kane Counties $3,292—to Milburn Bros., Mt. Prospect, Route 62, Sect. 117, Cook Co. $97,-698—to G. G. Anderson & Co., Harvey, Route 52, Sect. 522 Cook, Co. $99,726—to Jansen & Schaeffer, Pekin, Route 90, Sect. 103 Peoria Co. $42,521—to P. J. Crowley, Maywood, Route 53, Sect. 532 Cook and DuPage Counties $195,-992—to M. Hays & Sons, 209 South La Salle St., Route 7, Sect. 11-1, $12,622; Route 7, Sect. 11-2 $12,278, both Bureau Co.—to R. Mann, 2331 Charles St., Rockford, Route 2, Sect. 38-VX, Ogle Co. $7,364—to W. O'Neal & Sons, Faribault, Minn., Route 95A, Sect. 106 $96,515; Route 95A, Sect. 107, $112,793, both Hancock Co. — to W. Lough & Sons, Marion, Route 151, Sect. 114X, Jackson Co. $59,540—to Breeden Bros. Co., Jacksonville, Route 78, Sect. 130 Peoria Co. $38,091—to G. E. Hoffman Constr. Co., Lincoln, Route 121, Sect. 138 Macon Co. $52,926—to Trompeter Constr. Co., Peru, Route 5, Sect. 14X Boone Co. $11,473—to E. M. Melahn Constr. Co., Algonquin, Route 173, Sect. 131-2X McHenry Co. $11,955—to Darrow & Barron, Waukegan, Route 173, Sect. 136S Lake Co. $39,929—to J. A. Shepherd Co., 1802 South 10th St., Terre Haute, Ind., Route 33, Sect. 6X Jasper Co. $5,322—to Louis Rich Constr. Co., 2038 St. Clair St., East St. Louis, Route 127, Sect. 108 $42,373; Route 127, Sect. 110 $66,235; Route 160, Sect. 139-X $4,947, all Bond Co.; grading, drainage structures, culverts Route 185, Sect. 112-A $12,727; Route 185, Sect. 113-A $23,405; Route 185, Sect. 114-A $30,545, all Fayette Co. — to Burch Constr. Co., 119 Monona Ave., Madison, Wis., Route 159, Sect. 130-A St. Clair Co. $49,540—to R. B. Potashnick, Cape Girardeau, Mo., Route 48, Sect. 105-A Saline Co. $37,698—to G. E. Hoffman Constr. Co., Lincoln, Route 120, Sect. 111-SA De Witt Co. $8,336; Route 121, Sect. 134-SA Logan Co. $12,948. Grand total $1,925,497. Noted Dec. 17, Jan. 14, Jan. 21, Feb. 25.

Ill., Nashville—Bd. Supervs. Washington Co., traffic-bound crushed stone surfacing 1.5 mi. State Aid Route 2 connecting with Radom, to Moore Bros. Constr. Co., 2000 St. Clair Ave., East St. Louis, $18,025. Noted Mar. 24.

Ill., Taylorville—Christian Co., concrete surfacing 3.56 mi. Taylorville-Mount Auburn Rd., to J. W. Etchison, Casey, $42,854; concrete for culverts and 2 rein.-con. bridges, to Zimmer Bridge Co., Paris, $5,899. Noted Mar. 24.

Ill., Urbana—Champaign Co., concrete paving 9 mi. Sects. 82 to 85 (inclusive) 9 and 18 ft., to Hartman-Clark Bros. Co., Peoria, $100,138. Noted Mar. 28 Daily.

Kansas—State Hy. Comn., Ellinwood, concrete surfacing, using mixed aggregate 0.062 mi. Project 50N-14, Federal Aid Project 331-G and 0.515 mi. Project 50N-14, Federal Air Project 331-H, Barton Co., to Cook & Stucker, Ottawa, $916 and $21,235 respectively. Noted Mar. 17.

Kansas—State Hy. Comn., Court House, Marion, sand gravel surfacing 17.7 mi. road in Cloud Co. and 14 mi. Jewell Co., to D. G. Hansen, Logan $4,106 and $3,248 respectively—14.6 mi. Saline Co., to B. Metzger, Ozawkie $4,818 —bituminous material surfacing 4.427 mi. Project 77-10, Federal Aid Project 240-C Marion Co., to J. H. Shears Sons, Hutchinson, $10,656—12.231 mi. Project 50N-21, Kansas Project 1197 and 20.566 mi. same project K.P. 1198, both Marion Co., to W. D. Shay, McPherson, $8,707 and $18,758 respectively. Grand total $50,293. Noted Mar. 17.

Indiana—State Hy. Comn., Indianapolis, grading, concrete paving 109,483 sq.yd. Federal Aid Project 209A, Rd. 6, St. Joseph and Marshall Counties, to Brand-Deal Corp., Columbia City, Ind., $129,911. Est. $178,936. Noted Mar. 24.

Indiana—State Hy. Comn., Indianapolis, grading, drainage structures, concrete surfacing 46,-744 sq.yd. Federal Aid Project 161-B, Rd. 54, Lawrence and Greene Counties, to Quinn Constr. Co., Bedford, $58,791. Est. $67,793. Noted Feb. 18.

Ind., Indianapolis—City Council, 8 in. concrete paving 4,305 ft., West Michigan St., 40 ft., to J. N. Morgan & Son, 506 Inland Bank Bldg., $20,705. Est. $32,061. Noted Jan. 21.

Iowa—State Hy. Comn., Ames, grading, drainage structures, flumes, sewers, paving 4.007 mi. road out of Valley Junction, F.A.P. 340 Polk Co., to Wright Constr. Co., 1325 Main St., Des Moines, $59,547 — grading, drainage structures 6.92 mi. Rd. 148, F.A.P. 348-B Cass and Adams Counties, to George W. Condon Co., 223 Grain Exch. Bldg., Omaha, Neb., $36,028 —14.167 mi. Rd. 76, F.A.P. 338-A and B Muscatine and Louisa Counties, to J. V. Hannahs, Keokuk, $58,130 — gravel surfacing 6.661 mi. Rd. 137, P-327 Wayne Co., to Harvey Sand & Gravel Co., Harvey, $9,856—12.542 mi. U. S. Rd. 65, P-490 Wayne Co., to R. H. Dixon, Mystic, $16,300—11.892 mi. Rd. 137, P-728 Warren Co., to L. J. Peters, 3400 Carlisle Rd., Des Moines, $16,900—9.615 mi. Rd. 137, P-526 Lucas Co., to M. O. Weaver, Iowa Falls, $14,313. Grand total $211,074. Noted Mar. 24.

Ia., Grundy Center — Grundy Co., clearing, grubbing, grading, drainage structures 8.5 mi. trunk roads, to J. W. Ross, Wellsburg, $10,707 —7 culverts, to E. C. Ellis, Centerville, $3,792 —3 wood trestles, re-erecting 50 ft. pony truss bridge with two 19 ft. approach spans, to E. N. Ove, Dike, $1,107. Grand total $15,606. Noted Mar. 17.

Kan., Wichita—C. C. Ellis, city clk., grading, curbing, guttering, asphaltic concrete resurfacing 24 blocks 2nd St., to H. L. Ritchie, 1820 North Mosley St., at $1.18 per sq.yd.

Kentucky—State Hy. Dpt., Frankfort, surfacing 11 mi. Cadiz-Eddyville Rd., $54,000, also road in Trigg Co., $46,000, by day labor. R. R. Elliott, Cadiz, dist. engr.

Maine—State Hy. Comn., Augusta, bituminous macadam (penolithic method) paving 5.89 mi. hy. Holden and Dedham, to Portland Contg. Co., Portland, $140,379—6.16 mi. Ellsworth, to L. Longhi & Sons, Torrington; Conn., $133,030—gravel surfacing 5.21 mi. Amity and Orient, to W. H. Hinman, Skowhegan, $39,736. Grand total $312,785.

Maryland — State Roads Comn., Baltimore, gravel surfacing 2.06 mi. Deale-Nutwell Rd., Contr. AA-123-82, Anne Arundel Co., to L. R. Colbert, Fredericksburg, Va., $17,475; concrete surfacing 1.1 mi. Troyer Rd. Contr. B-242-44, Baltimore Co., to H. T. Campbell & Sons Co., Towson, $14,044. Noted Mar. 17.

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, gravel surfacing 1.48 mi. Contr. Sm-95-94, St. Mary's Co., to H. W. Hewitt & Sons, Valley Lee, $7,706—sheet asphalt paving 0.43 mi. Contr. BC-115-74, Baltimore City, to National Paving & Contg. Co., Menlo Dr. and Western Md. R R., Baltimore, $22,990—concrete paving 1.18 mi. Contr. AA-113-74, Anne Arundel Co., to Christhilf & Ensey Co., 1625 Ridgely St., Baltimore, $18,331. Grand total $49,027. Noted Mar. 24.

Maryland — State Roads Comn., Baltimore, G. C. Uhl, chn., concrete paving 0.33 mi. Contr. Ce-77-3-23, Cecil Co., to Phillips Bros., Salisbury, $6,572. Noted Mar. 31.

Maryland—State Roads Comn., Baltimore, G. C. Uhl, chn., concrete paving 2.43 mi. Contr. G-73-74, Garrett Co., to M. F. McCabe Co.,

Maryland — Bd. Awards, grading, concrete paving 12,000 sq.yd. Beckleysville Rd., north of Shamburg Ridge Rd., in vicinity Prettyboy Dam, Contr. 614, Baltimore Co., to Harry T. Campbell & Sons Co., Towson, $19,420. Noted Mar. 24.

Maryland — State Roads Comn., Baltimore, G. C. Uhl, chn., concrete shoulders, concrete curbing, guttering 1.54 mi. Contr. BC-113-74, Baltimore, to P. Reddington & Sons, 2 Lexington St., Baltimore, $17,504. Noted Mar. 10.

Mass., Newton—Street Comrs., constructing new and repairing old concrete, tar, cement and bituminous macadam sidewalks, driveways, curbing, etc. as specified, to H. F. Armington, Inc., 26 Salisbury Rd., Brookline. Est. $25,000 or more.

Mass., Winthrop—City, granolithic sidewalks, to F. J. McQueeney, 9 Atlantic St.; edgestones, to S. Connolly, 47 Draper St., Dorchester. Total est. $25,000.

Minnesota—State Hy. Comn., St. Paul, to Foley Bros., New York Life Bldg., St. Paul, paving 13.5 mi. State Project 3-53, Sect. 2, F.A.P. 27B, $238,777; 10.8 mi. S.P. 6-47, F.A.P. 388A, $209,512; 13.5 mi. S.P. 14-25, Sect. 3, Div. B F.A.P. 425 B and S.P. 14-25, Sect. 1, Div. A, F.A.P. 425A $220,658; 9.2 mi. S.P. 15-33, Sect. 1, F.A.P. 72, S.P. 15-33, Sect. 3, Div. A, F.A.P. 196, $141,933; 14.3 mi. S.P. 15-33-3, Div. B, F.A.P. 196, S.P. 15-33, Sect. 2, F.A.P. 417B and S.P. 15-34, Sect. 2, $226,044; 8.7 mi. S.P. 20-25 Div. B, F.A.P. 250 $143,860; 19.8 mi. S.P. 20-37, Sect. 1, F.A.P. 39 and S.P. 20-37, Sect. 2, F.A.P. 137, $305,235; 11.6 mi. S.P. 14-25-1, Div. B, F.A.P. 425A, $196,341—to J. W. Salo Contg. Co., 1215 East 11th St., Duluth, 6.5 mi. S.P. 3-61, F.A.P. 29, $97,254—to R. P. England, Sleepy Eye, 11.5 mi. S.P. 3-41, Div. A $94,709; 11.1 mi. S.P. 4-44, Sect. 2, $71,598—to Olivia Constr. Co., Olivia, 2.9 mi. S.P. 4-46, Sect. 1 $15,760—to Martin Wunderlich, 1221 Blair St., St. Paul, 11.6 mi. S.P. 8-48, Sect. 2, Div. B $110,997; 7.3 mi. S.P. 8-48 $91,104—to Lobnitz Bros., Willmar, 10 mi. S.P. 25-28, Sect. 1, $56,765. Grand total $2,220,547. Noted Mar. 24.

Mississippi—State Hy. Dpt., Jackson, clearing, grubbing, grading, drainage structures, bridges on 6.042 mi. Meridian-Macon Rd., Federal Aid Project 107-C, Lauderdale Co., to Stevens Bros. & Miller-Hutchinson Co., Sellers, La., $40,532. Noted Mar. 31.

Mo., St. Louis—Bd. P. Serv., City Hall, to Mills Drayage Co., 2817 Easton Ave., grading between building lines Beck Ave. $4,530; Jasper Park $2,902; McDonald Ave. $1,845—to Fruin-Colnon Contg. Co. Merchants-Laclede Bldg., Lindenwood Pl. $13,254—to F. M. Luth, 4135 Flora Ave., grading, concrete paving City Block 3275 $1,420—to Excavating Co., Inc., 705 Olive St., grading ground for municipal auditorium on Market St., between 14th and 15th Sts. $8,966. Grand total $32,917. Noted Mar. 10.

Nebraska—Dpt. P. Wks., Lincoln, grading 5.2 mi. Cherry Co., to W. A. Biba Eng. Co., Geneva, $34,774—road mixed oil sand surfacing same road, to Yant Constr. Co., 1146 Omaha Natl. Bank Bldg., Lincoln, $66,145—3 steel deck girder bridges in Red Willow Co., to W. B. Honska, Concordia, Kan., $57,579. Grand total $158,498.

Neb., Omaha—Union Stock Yarks Co., R. Bernard, building supt., South Omaha, moving

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Streets and Roads (Continued)

south curb of L St. back 12 ft. and pave with brick, 3,300 sq. yd. from Dahlman Ave. to 36th St., own forces.

New York—Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, grading, paving 1.85 mi. Central Westchester Parkway, in White Plains, to A. W. Banks, Inc., 185 Main St., White Plains, $122,800. Noted Mar. 24.

N. Y., Mineola—Nassau Co., grading, guttering, asphalt on concrete paving Grove St., to Hinkle & Finlayson, Cedar Swamp, Glen Cove, $22,268; repairing Bayville Bridge, to A. Weston, Cedarhurst, $13,157. Noted Mar. 3.

Ohio—O. W. Merrell, dir. Hys., Columbus, grading, draining, concrete widening 1.703 mi. Sect. "D" Cleveland-Meadville Rd., Geauga Co., to Painesville & Fairport Transportation Co., Painesville, $16,197—concrete paving 0.937 mi. Sect. "A" Cleveland-Canton Rd., Geauga Co., to Cleveland Trinidad Paving Co., 700 Western Reserve Bldg., Cleveland, $26,879—1.501 mi. Sect. "Rutland," Pomeroy-Jackson Rd., Meigs Co., to Bellefontaine Development Co., Bellefontaine, $40,845 — 2.53 mi. Sect. "C" Youngstown-Cherry Valley Rd., Trumbull Co., to L. G. Booth, State St., Painesville, $42,000—bituminous macadam paving 3.833 mi. Sect. "M" and others, Bryan-Napoleon Rd., Henry Co., to Mengerink Bros., Napoleon, $65,980—brick paving, incl. furnishing and delivering brick, 0.2383 mi. Sect. "A" North Springfield-Stow Rd., Summit Co., to L. Crano, 208 Crosby St., Akron, $15,093—grading, draining, waterbound macadam widening 2.01 mi. Sect. "G" Riffin-New Haven Rd., Seneca Co., to D. C. Ingold, McComb, $20,988 — grading, draining, traffic bound macadam surfacing 1.078 mi. Sect. "F" Monroeville-Chicago Junction Rd., Huron Co., to Ferwerda Bros. Constr. Co., Bedford, $20,026. Grand total $263,317. O. W. Merrell, dir. hys., Columbus, cancelled bids opened Mar. 25, for grading, draining, brick and concrete paving 2.019 mi. Sect. "McArthur" and "F" McArthur-Athens Rd., Cinton Co., est. $47,397. Noted Mar. 24.

O., Cleveland — Cuyahoga Co., Court House, grading, sandstone and granite curbing, 4 in. drain tile guttering, 60,000 lb. reinforcing steel, 9 in. vitr. brick paving 12,640 sq.yd. Green Rd. 8, to Bentley Bros., Hanna Bldg., $64,946. Est. $101,600.

O., Medina—Medina Co., bituminous macadam or waterbound macadam paving 4.38 mi. 4 roads, to Allied Supply Co., Medina, $57,406.

Oklahoma—State Hy. Dpt., Oklahoma City, grading, drainage structures 5.996 mi. State Aid Project 812-A, Beckham Co., to T. C. Ottinger, Hinton, $14,765 est. $25,000; 6.605 mi. State Aid Project 268-A, Tillman Co., to J. E. Smith & Sons, Noble, $20,119 est. $25,000, both 32 ft. wide. Noted Mar. 25.

Tennessee—State Dpt. Hys. & P. Wks., Nashville, surfacing 3.8 mi. Chattanooga-Dayton Rd., Hamilton Co., to Municipal Paving & Constr. Co., Cotton States Bldg., Nashville, $57,883 — overhead bridge on Jonesboro-Johnson City Rd., Washington Co., to E. A. Wood & Co., Cotton States Bldg., Nashville, $14,350. Noted Mar. 17.

Tennessee—State Dpt. P. Wks. & Buildings, Div. Hys., Nashville, to Interstate Constr. Co., Independent Life Insurance Bldg., Nashville, surface treating 8.4 mi. State Hy. 48, Dickson-Charlotte Rd., Dickson Co. $8,453; 7 mi. Hy. 56 from Monteagle northward, Grundy Co. $11,296; Hy. 6 between Columbia and Lawrenceburg, Lawrence Co., $7,772; resurfacing 7 mi. Hy. 37 from Hampton eastward, Carter Co., $7,725 to Brown Constr. Co., 2117 Laura St., Chattanooga, surface treating 3 mi. Hy. 2 from Monteagle toward foot of Mountain, Marion Co. $10,824. Grand total $46,070. Noted Mar. 25.

Texas—G. Gilchrist, state hy. engr., Austin, double bituminous surface treating 16.65 mi. Hy. 67, Job No. M-8-S-3, Stephens Co., to A. E. Morgan, Linz Bldg., Dallas, $18,522 est. $25,000—12.6 mi. Hy. 64, Job No. M-10-P-6, Rusk Co., to R. W. McKinney, Nacogdoches, $22,870 est. $30,000—15 mi. Hy. 29, Job No. M-14-K-3, Williamson Co., to Brown & Root, Inc., Colorado St., Austin, $19,836 est. $35,000. Grand total $61,228. Noted Mar. 24.

Texas—G. Gilchrist, state hy. engr., Austin, concrete paving 9.687 mi. hy. Brazos Co., to G. LaBoiteaux, Houma, La., $145,113—17.738 mi. Refugio Co., to H. B. Zachary Co., Laredo, $260,928—13.91 mi. hy. 9 Live Oak Co., to F. P. McElwrath Constr. Co., P. O. Box 727, Corsicana, $215,777—Caliche base course surfacing 13.03 mi. Hy. 66, Live Oak Co., to J. W. Gwinn, 1801 Comer Bldg., Birmingham, Ala., $29,958 — grading, drainage structures, single bituminous on caliche base surface treating 11.822 mi. Hutchinson Co., to McClure & Denison, Abilene, $69,932—grading, drainage structures, 3.816 mi. Dallas Co. to J. P. Foty, 411 Burt Bldg., Dallas (tentative), $42,011—grading, small drainage structures 15.323 mi. King Co., to Womack-Henning Constr. Co., Sherman, $30,041—8.644 mi. Cherokee Co., to D. H. Dalton Co., Arkadelphia, Ark., $52,625—8.269 mi. Tyler Co., to L. R. Climer, Groesbeck, $38,878. Grand total $885,263. Noted Mar. 31

Utah—State Rd. Comn., Salt Lake City, grading, graveling 19.613 mi. Summit Co., to O. J. Preece, Salt Lake City, $32,253. Est. $44,606. Noted Mar. 31.

Utah—State Road Comn., Salt Lake City, grading, graveling Vernal-Jensen Hy., Uintah Co., to W. W. Clyde & J. W. Whiting, Springville, $40,334. Est. $51,022. Noted Mar. 31.

Utah—State Hy. Dpt., Salt Lake City, grading, graveling 10.5 mi. Arrowhead Trail, Washington Co., to A. O. Thorne and Strong & Grant, Springville, $68,802. Est. $80,120.

Washington—S. J. Humes, dir. Hys., concrete paving 8.501 mi. King Co., to N. Fiorito, 844 West 48th St., Seattle, $203,000; 0.401 mi. Spokane Co., to C. A. Power, South 1703 Grand Blvd., Spokane, $14,782. Noted Mar. 17.

Washington — S. J. Humes, dir. State Hy. Comn., Olympia, paving 4.1 mi. Sunset Hy., King Co., to Erickson Paving Co., 1550 North 34th St., Seattle, $102,978—grading 1.8 mi. Olympic Hy., Jefferson Co., to J. S. Pederson, Enmclaw, $13,491 — crushed stone surfacing 2.7 mi. Pacific Hy., Whatcom Co., to Campbell Constr. Co., Renton, $78,507. Grand total $194,976. Noted Mar. 17.

Washington—Walla Walla Co., Court House, grading, paving 5.8 mi. Smith Springs Rd., 20 ft., to Columbia Power & Investment Co., Stevenson, $48,802.

Wash., Tacoma—Comrs. Pierce Co., grading, concrete paving 11,566 sq.yd. Puyallup-Edgewood Hy., to Paine & Gallucio, 1521 South Grand St., $22,949, est. $24,580; 2.5 mi. Puyallup-Graham Rd., to J. Warter, Tacoma, $25,629, est. $25,884.

Wash., Wenatchee — Chelan Co., grading, crushed stone surfacing 9,550 cu.yd. Permanent Hy. 26, to Goodfellow Bros., Wenatchee, $27,793.

Ont., Toronto—Asphalt on concrete paving Don Improvement Roadway, to Rayner Contr. Co., 29 Commercial St., $23,564—Hillsdale Ave., to Constructing & Paving Co., Confederation Life Bldg., $5,369—Leslie St., to Kilmer & Barber, Harbor Bldg., $7,000—Glenview and Rosewell Aves., to Godson Contg. Co., 203 Richmond St. W., $3,976 and $2,946 respectively—concrete paving lane near Howard Park Ave., to E. Mark, 1903 Davenport Rd., $2,987—lane near Bloor St., to L. P. Acri, 28 Grove Ave., $970. Grand total $46,812.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

Calif., Los Angeles—See "Dams."

Fla., Pensacola—City, G. J. Roark, city mgr., surveys and plans bulkhead, extending along waterfront topped by waterfront boulevard; extending municipally owned Palafox St. wharf into bay to Pierhead Line, established by United States Engineer Dpt.; deepening channel alongside wharves to 28 ft., project is already under advisement by local United States Engineer Office for possibility of government participation.

Mass., Barnstable—Town, dredging and bulkhead in Hyannis Harbor, Hyannis. $25,000 or more. G. W. Hallett, chn. building com., Osterville.

BIDS ASKED

La., Lake End—Apr. 27, by State Bd. Commissioners, 207 New Orleans Court Bldg., New Orleans, improving drainage, incl. 500,000 cu. yd. excav., 40 ft. bottom width in Bayou Pierre, Red River and De Soto Parishes, for Red River, Bayou Pierre Drainage Dist. $100,000 appropriated. State Board of Engineers, New Orleans, engrs.

Wis., Janesville—Apr. 22, by M. A. Puerner, city clk., 100,000 cu. yd. park filling from Rock River; adv. E. N.-R. Apr. 14.

CONTRACTS AWARDED

Ill., Chicago—Dpt. P. Wks., City Hall, furnishing, fabricating structural steel screens for William E. Dever Crib, to Gage Structural Steel Co., 3141 South Hayne Ave., $7,630.

La., Abbeville—Isle Maronne Drainage Dist., Vermilion Parish, clearing, redredging 1.25 mi. canal leading south from Intercoastal Canal, etc., to F. L. Pere, Abbeville, at $0.10 per cu.yd.

Massachusetts—Dpt. P. Wks., State House, Boston, dredging 100 ft. channel, to depth 6 ft., constructing 450 ft. stone jetty, 5,000 tons stone rip rap, Oak Bluffs and Tisbury, to Merrit, Chapman & Scott, Industrial Trust Bldg., Providence, R. I., $23,770 est. $25,000. Noted Mar. 31.

Wash., Everett—Port Comns., riprap work, incl. 10,000 tons rock, to American Pile Driving Co., Everett, at $1.62 per ton.

Bond Elections

Coming Bond Elections

Water Distribution System — Saranap Water Dist., Walnut Creek, Calif., Apr. 29, $47,000.

Waterworks — Celina, Tenn., $25,000. C. L. Hale, Mayor.

Schools, Court Building, Electrical Conduits, Sewers, Paving and Bridges—Baltimore, Md., November, $22,000,000.

Bonds Voted

Light and Power Plant — Iron River, Mich., $75,000.

FEDERAL GOVERNMENT

PROPOSED WORK

California—LIGHTHOUSE—Lighthouse Service, Wash., D. C., rebuilding (automatic light), Redding Rock Lighthouse, between St. George reef and Trinidad Head.

Calif., West Los Angeles—QUARTERS—Vet. Bu., Arlington Bldg., Wash., D. C., sketches nurses' quarters, dining room, and kitchen at U. S. Veterans' Administration. $200,000.

Fla., Jacksonville—DREDGE—U. S. Eng., Jacksonville, hauling out and repairing 15 in. pipe line dredge.

Fla., Jacksonvile—FEDERAL BUILDING—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids soon takes bids, 5 story U. S. Federal Building, $1,500,000. Marsh & Saxelbye, Consolidated Bldg., archts.

Kan., Manhattan — POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., brick, steel, stone U. S. Post Office. $130,000. Site selected.

Mass., Camp Devens—SERVICE BUILDING—Con. Q. M., service buildings, new roads and sidewalks. $30,000.

Miss., Cleveland — POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., 1 story, basement, brick, steel post office. $70,000. Site selected.

N. J., Bloomfield—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about Aug. 1, general contract 1 story, basement, brick, steel, rein.-con., Bloomfield Ave. and Municipal Plaza, $200,000. W. O. Bart-Wetmore, c/o owner, assoc. archt. Noted Jan. 28.

N. J., Newark—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., soon takes supplemental bids post office and court house, Vroom Alley, Mulberry, Washington, Walnut and Franklin Sts. W. E. Lehman and G. O. Totten, Jr., 972 Broad St., associate archts. W. H. Duesenberry, 1841 Bway., mechanical engr. Noted Mar. 24.

N. Y., LeRoy—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by J. B. Arnold, Hiram Sibley Bldg., Rochester, U. S. Post Office. Noted Jan. 28.

N. C., Fort Bragg—HANGAR—U. S. Eng., steel, tile balloon hangar. $100,000.

Ore., Portland—DREDGING—U. S. Eng., Portland, 5,900 cu.yd. rock and 413,488 cu.yd. material and dikes constructed in Willamette River from Oregon City to point 5 mi. below.

S. C., Parris Island—ROADS—Spec. 6799—Yards & Docks, Navy Dpt., Wash., D. C., widening concrete roads at U. S. Marine Barracks.

Tex., Stephensville—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by M. Lemmon, Tower Bldg., Dallas, U. S. Post Office.

Utah, Logan—FEDERAL BUILDING—Treas. Dpt. at office Sup. Archt., Wash., D. C., federal building addition. $50,000. J. A. Wetmore, Wash., D. C., acting superv. archt.

Va., Langley Field—QUARTERS—Con. Q.M. rejected bids Feb. 19, officers quarters. Noted Jan. 28.

Wash., Puget Sound — REFRIGERATING UNIT—Spec. 6697—Yards & Docks, Navy Dpt., Wash., D. C., removing existing refrigerating and ice-making equipment and installing automatic refrigerating unit, ice-making equipment, motor-driven brine pumps, and cold storage rooms, at Navy Yard (Hospital).

BIDS ASKED

Ala., Auburn—FOUNDATION—May 3, by Treas. Dpt. at office Sup. Archt., Wash., D. C., foundations U. S. Post Office. Total $90,000; adv. E. N.-R. Apr. 14. Noted Jan. 26.

Ala., Tuscaloosa—FENCE—Apr. 26, by Vet. Bu., Arlington Bldg., Wash., D. C., constructing chain link fence and gates, farm fence, gates at U. S. Veterans' Hospital.

Calif., San Francisco—DOCK—Apr. 29, by Con. Q. M., Fort Mason, constructing rein.-con. extension to Pier 2. Noted Feb. 11.

Calif., San Ysidro—INSPECTION STATION—Apr. 29, by Treas. Dpt. at office Sup. Archt., Wash., D. C., inspection station.

Calif., Stockton—DREDGING—May 4, by U. S. Eng., California Fruit Bldg., Sacramento, 1,496,500 cu.yd. in Stockton 26 ft. channel prism.

Colorado — POWER PLANT — Apr. 28, by Bureau Reclamation, Denver, power plant addition of Grand Valley Power Plant, Grand Valley Reclamation Project. R. F. Walter, ch. engr.

Del., Dover — POST OFFICE — May 2, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office; adv. E. N.-R. Apr. 14. Noted Oct. 29.

D. C., Wash.—CLINIC BUILDING—Apr. 19, by Secretary Interior, Interior Dpt. Bldg., clinics building at Freedman's Hospital.

D. C., Wash.—MEMORIAL ENTRANCE—May 11, by Arlington Memorial Bridge Comn., office Executive Officer, constructing memorial entrance to Arlington National Cemetery, west end of Arlington Memorial Bridge Project; adv. E. N.-R. Apr. 14.

Illinois—LEVEE—May 11, by U. S. Eng., 1st Chicago Dist., 333 North Michigan Ave., Chicago, 1,150 ft. earth levee, containing 5,300 cu.yd. earth embankment between Illinois and Michigan Canal and Illinois Traction System

Federal Government (Continued)

right-of-way 1.25 mi. northeast of Starved Rock dam on Illinois River; adv. E. N.-R. Apr. 14.

Illinois and Arkansas—BANK PROTECTION—May 11, by U. S. Eng., P. O. Box 97, Memphis, Tenn., constructing 77,000 lin.ft. standard bank protection work on Mississippi River, between Cairo, Ill., and mouth of White River, Ark.

Ill., Waukegan — ELEVATOR — May 2, by Treas. Dpt. at office Sup. Archt., Wash., D. C., freight elevator in U. S. Post Office.

Ind., Hagerstown—POST OFFICE—May 2, by Treas Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted Oct. 29.

Massachusetts—DREDGING, etc.—May 13, by U. S. Eng., Providence, R. I., dredging 24,900 cu.yd. material and removing 18,436 cu. yd. ledge rock in Taunton River; adv. E. N.-R. Apr. 14. Noted Mar. 31.

Mass., Buzzards Bay—OAK PILES—Apr. 17, by U. S. Eng., Custom House, 35 poles 60-65 ft. long and 35 poles 50-55 ft. long.

Mich., Fort Wayne—ROADS, etc.—May 2, by Con. Q. M., constructing and completing roads, curbing, sidewalks, and drainage.

Minn., Duluth—LOOSE ROCK—Apr. 18, by U. S. Eng., Canal Park, loose rock of igneous origin, weighing 170 lb. per cu.ft. and in varying sizes (incl. gravel), as needed from time to time during season at locality on Lake Superior accessible to U. S. Floating Plant, such loose rock as may be reached by Government Derrickboat from portions of Silver Creek Bluff, Minn., and of Washington Island near Royale, Mich.

Miss., Meridian — ELEVATOR — May 4, by Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator plant in U. S. Post Office.

Miss., Meridian—POST OFFICE—Apr. 25, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted Nov. 12.

Mo., St. Louis—EXCAVATION, etc.—May 3, by Treas. Dpt. at office Sup. Archt., Wash., D. C., excavation and foundations of U. S. Court House, Custom House, etc.; adv. E. N.-R. Apr. 14. Noted Feb. 11.

N. H., Portsmouth — CONDENSER — Spec. 6845—Apr. 20, by Yards & Docks, Navy Dpt., Wash., D. C., furnishing, condenser, pump and air ejector (16,000 lb. per hr. steam capacity), Navy Yard.

New Jersey—DREDGING—Apr. 28, by U. S. Eng., Wilmington, Del., 578,000 cu.yd. at Cold Spring Inlet; adv. E. N.-R. Apr. 14. Noted Apr. 7.

N. J., Paterson—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about May 1, general contract 2 story, basement, brick, steel, Ramapo Ave., Market and Straight Sts. $470,000. F. W. Wentworth, 140 Market St., archt. J. A. Wetmore, Wash., D. C., superv. archt. Noted Jan. 28.

N. Y., Binghamton—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about June 15, general contract 3 story U. S. Post Office and Court House. $575,000. Conrad & Cummings, Phelps Bldg., archts. L. Rich, 101 Park Ave., New York, consult. archt. Noted Jan. 21.

N. Y., Northport—REFRIGERATION PLANT—Apr. 26, by Vet. Bu., Arlington Bldg., Wash., D. C., additions to refrigeration plant, at U. S. Veterans' Hospital.

O., Bucyrus—POST OFFICE—Apr. 29, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $140,000.

O., Dover—POST OFFICE—May 3, by Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing U. S. Post Office. $110,000; adv. E. N.-R. Apr. 14.

Pennsylvania—WATER SYSTEM—Apr. 18, by Superintendent Lighthouses, Staten Island, N. Y., water system at airway station, Winklebleck Mountain, Numidia and Park Place, Proposal 39745.

Tenn., Memphis—STEEL FORMS—Apr. 19, by U. S. Eng., Memphis, steel forms for casting articulated concrete mattress for revetments.

Texas and Arkansas—LIGHTING FACILITIES—Apr. 25, by Div. Purchase & Sales, Dpt. Commerce, Wash., D. C., installing incl. 22 standard airway electric rotating beacons on Dallas-Little Rock Sect., Dallas-Louisville Airway.

Va., Oak Grove—QUARTERS, etc.—Apr. 22, by National Park Serv., Dpt. Interior, custodian's quarters, employees' quarters, garages, and comfort station.

Va., Quantico — REPAIRING PIER — Spec. 6815—Apr. 20, by Yards & Docks, Navy Dpt., Wash., D. C., repairing pier and bulkhead at Marine Barracks.

W. Va., Huntington—CHANNEL BUOYS—Apr. 20, by U. S. Eng., 50 channel buoys.

W. Va., Princeton — EXCAVATION, etc. — Apr. 26, by Treas. Dpt. at office Sup. Archt., Wash., D. C., excavation and foundation for U. S. Post Office. Total $130,000; adv. E. N.-R. Apr. 14.

Wyo., Torrington—POST OFFICE—May 4, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office; adv. E. N.-R. Apr. 14. Noted Dec. 10.

Canal Zone—OVERHAULING LOCKS—Apr. 27, by A. L. Flint, genl. purch. officer Panama Canal, overhauling Pacific Locks, Panama Canal, incl. structural steel angles and bars, bearing plates, pintles, pintle bushings, yoke pine, etc. Schedule 2744.

BIDS RECEIVED

D. C., Wash.—REMODELING, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., Apr. 8, general contract remodeling and constructing U. S. Post Office addition, from B-W Constr. Co., 720 Wabash St., Chicago, Ill., $2,990,000. Noted Apr. 7.

CONTRACTS AWARDED

Ariz., Phoenix—WALLS—Treas. Dpt. at office Sup. Archt., Wash., D. C., floating and sub-basement walls U. S. Post Office, to R. McKee, 1916 Texas St., El Paso, Tex., $26,200. Noted Mar. 10.

Ariz., Phoenix—OIL BURNERS—Indiana Bureau, Wash., D. C., purchasing electric pump and 2 oil burners, to Oil Burning Equipment Co., Phoenix, $2,497.

Fla., Pensacola—REFRIGERATING UNIT—Spec. 6755—Yards & Docks, Navy Dpt., Wash., D. C., dismantling and removing existing cold storage rooms and ice-making equipment, new founds., refrigerating unit, etc., to Haralson Sales Co., 2920 7th Ave., South Birmingham, Ala., $6,000.

Fla., Pensacola—FILLING, etc.—Spec. 6487—Yards & Docks, Navy Dpt., Wash., D. C., filling and grading at Naval Air Station, to Atlantic Gulf & Pacific Co., 13 Park Row, New York, $68,739. Noted Mar. 24.

Ga., Macon — ELEVATOR PLANT — Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator plant in U. S. Post Office, to Otis Elevator Co., 810 18th St. N. W., Wash., D. C., $19,400. Noted Feb. 2.

Illinois—DREDGING—U. S. Eng., 1st Chicago Dist., Chicago, dredging, excavating Dresden Island Pool, Illinois River, to Arundel Corp. Pier 2, Pratt St., Baltimore, Md., $536,000. Noted Mar. 3.

Ill., Rockford—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Largura Constr. Co., Inc., Gary, Ind., $516,500. Noted Mar. 3.

La., Shreveport—GYMNASIUM—Con. Q. M., Barksdale Field, gymnasium, to K. C. Wilson, Shreveport, $38,365. Noted Mar. 10.

Mass., Bedford—COAL BUNKER—Vet. Bu., Arlington Bldg., Wash., D. C., rein.-con. coal bunker, rolling steel doors, stoker equipment, to Pasquale Constr. Co., 91 Williams St., Jamaica Plain. Est. $25,000. Noted Jan. 28.

Mass, Gloucester — POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to T. Perrone Constr. Co., 1026 Main St., Hartford, Conn., $232,995. Noted Mar. 17.

Mass., Hull—RESERVATION BUILDING—Con. Q. M., Army Base, Boston, reservation building, Bluff Rd. near Allerton Point, to M. Spinelli & Sons, 333 Washington St., Boston, $10,950. Noted Mar. 17.

Mich., Detroit — IMMIGRATION STATION, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., immigration station, boiler house, remodeling quarters, to Misch Bros., 3001 Gratiot Ave., $34,000 (180 days). Noted Feb. 25.

Missouri—PILING DIKES—U. S. Eng., 428 Custom House, St. Louis, 3,400 ft. piling dikes in Missouri River, at Marthasville Bend, Patton-Tully Transportation Co., Memphis Tenn., $80,638.

Missouri—PILE CLUMP DIKES—U. S. Eng., St. Louis, 1,460 ft. standard pile clump dikes in Missouri River at Dozier Bend, between Miles 49 and 51, above mouth of river, to M. A. Wogan Constr. Co., Kansas City, $29,862.

Mo., St. Louis—PONTOONS—U. S. Eng., 428 Custom House, twenty 47½ x 16 x 3 ft. steel pontoons and 19 trucks, to St. Louis Structural Steel Co., 57th St. and B. & O. tracks, East St. Louis, Ill., $27,700; 65 sections (1,170 ft. 24 in.) discharge pipe, to Midland Barge Co., Midland, Pa., $6,305. Noted Mar. 3.

Mo., West Plains — POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling basement U. S. Post Office, to C. E. King, Charlottesville, Va., $2,981. Noted Feb. 11.

New Jersey — DREDGING — U. S. Eng., 39 Whitehall St., New York, 225,000 cu.yd. material for maintenance in Hackensack River from Little Ferry to Hackensack, to Trimount Dredging Co., 10 State St., Boston. Mass., $25,984. Noted Mar. 3.

N. Y., Brooklyn—BOILER SHOP—Yards & Docks, Navy Dpt., Wash., D. C., boiler shop building at Navy Yard, to Hart & Earley, 18 East 41st St., New York, $11,480.

N. Y., Kingston—REMODELING—Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office, to Universal Constr. Co., Medical Arts Bldg., Fort Wayne, Ind., $9,999 (120 days). Noted Mar. 3.

N. Y., Oswego — DREDGING, etc. — U. S. Eng., Buffalo, dredging and rock excavation 200,000 cu.yd. in Oswego Harbor, to Great Lakes Dredge & Dock Co., 17 Battery Pl., New York, $270,000. Noted Feb. 18.

N. C., High Point — POST OFFICE — Con. Q. M., constructing U. S. Post Office, to Spence Bros., Saginaw, Mich. Est. $234,800. Noted Mar. 10.

O., Chillicothe — POWER PLANT EQUIPMENT—Dpt. Justice, Bureau Prisons, Wash., D. C., boiler settings, to E. Keller Co., Williamsport, Pa., $10,206.

Pa., Aspinwall — ELEVATOR — Vet. Bu., Arlington Bldg., Wash., D. C., elevator, for new building, U. S. Veterans' Hospital, to Otis Elevator Co., 810 18th St. N. W., Wash., D. C., $9,300.

Ore., Rosebug—HOME—Vet. Bu., Arlington Bldg., Wash., D. C., buildings and utilities at U. S. Veterans' Hospital, general contract, to Murch Bros. Constr. Co., Railway Exch. Bldg., St. Louis, Mo., $549,000; plumbing and heating, to Redmond Heating Co., 124 North 4th St., Louisville, Ky., $219,220; refrigeration, to Northwest Ice. Co., 6004 Duwamish St., Seattle, Wash., $15,400; elevators, to Montgomery Elevator Co., Moline, Ill., $20,000. Grand total $803,629. Noted Feb. 25.

Pa., Pittsburgh—DIPPER DREDGE—U. S. Eng., 2½ yd. steel hull dipper dredge, to McClintic-Marshall Corp., Oliver Bldg., $50,733. Noted Feb. 18.

Tenn., Memphis — BOILER — U. S. Eng., Memphis, one 275 hp. locomotive type boiler, f.o.b. cars, contractors mill, to Hedges-Walsh-Weidner Co., West Main St., Chattanooga, $5,983. Noted Mar. 31.

Va., Hampton Roads—RELOCATING, etc.—Spec. 6836—Yards & Docks, Navy Dpt., Wash., D. C., removing and relocating 3 quarters and 2 fire engine houses, to Palmer Constr. Co., Florence, S. C., $11,700.

Va., Norfolk — EXCAVATION — Treas. Dpt. at office Sup. Archt., Wash., D. C., piling and excavating for U. S. Marine Hospital, to Tunstell-Johnson Co., Citizens Bank Bldg. Noted Feb. 25.

Va., Norfolk—QUARTERS—Yards & Docks, Navy Dpt., moving and relocating quarters, Hampton Roads, to J. A. Killian, Baltimore, Md., $47,000. Noted Mar. 3.

Wash., Ellensburg—PUMPING PLANT—Bureau Reclamation, Wippel Pumping Plant, appurtenances, to L. Coluccio & Co., 1638 Lane St., Seattle, $13,713. Est. $17,000. Noted Feb. 25.

RAILWAYS

PROPOSED WORK

New York—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, revised plans yards, yard work, team yards, etc. West Street yards, in Syracuse. To exceed $25,000. Pub. Serv. Comn. approved revised plans.

CONTRACTS AWARDED

New York and Massachusetts — New York, New Haven & Hartford R.R. Co., E. E. Oviatt, ch. engr., New Haven, Conn., 10,000 tons 130 lb. rails placed between New York, N. Y., and Boston, Mass., by day labor. Rails awarded to Carnegie Steel Co., Carnegie Bldg., Pittsburgh, Pa., and to Bethlehem Steel Co., Bethlehem, Pa.

SUBWAYS AND TUNNELS

PROPOSED WORK

Pa., Pittsburgh—City Council considering plans for constructing subway loop and wharf walls along Allegheny River. $6,100,000. W. Haydock, engr. Transit Comn. E. G. Lang, dir. P. Wks. Dpt.

GRADE CROSSINGS

PROPOSED WORK

New York—Long Island R.R. Co., A. C. Watson, ch. engr., Penn. Sta., New York, plans grade separations, Valley Stream and Lynbrook. Pub. Serv. Comn. approved plans, specifications and estimated cost $4,425,819.

N. Y., Amherst—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, altering grade crossing on Buffalo-Millsport Highway. To exceed $25,000. Public Serv. Com. holding hearing on changes.

N. Y., East Aurora—Pennsylvania R.R. Co., T. J. Skillman, ch. engr., 266 Lexington Ave., New York, eliminating Oakwood Ave., Main, Parsons and Olean Street Crossings. To exceed $25,000.

N. Y., Glenville—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, and Fonda, Johnstown & Gloversville R.R., J. L. Hees, pres., Gloversville, eliminating Hardins Crossing. To exceed $25,000. Pub. Serv. Comn. directed property be acquired for this crossing.

N. Y., Hamptonburg—New York, Ontario & Western R.R. Co., W. C. Heidenthal, ch. engr., Middletown, eliminating grade crossing on Montgomery-Goshen Hy. 65. To exceed $25,000. Pub. Serv. Comn. approved general plan for altering existing crossing.

N. Y., Henrietta — New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, eliminating grade crossing at Richland Station. To exceed $25,000. Pub. Serv. Comn. will hold further hearings on order to eliminate above crossing.

N. Y., New Scotland—Delaware & Hudson R.R. Co., J. MacMartin, ch. engr., Albany, eliminating Voorheesville State Farm-Western Turnpike Crossing, Albany Co. $25,000.

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Grade Crossings (Continued)

N. Y., Northumberland—Delaware & Hudson R.R. Co., J. MacMartin, ch. engr., Albany, preparing plans eliminating grade crossing at Gansevoort-Butlers Rd. and Fulton St. $25,000.

N. Y., Oriskany—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, Pub. Serv. Comn. will hold further hearings on order to eliminate above crossing, eliminating grade separation. To exceed $25,000.

N. Y., Rush—Lehigh Valley R.R. Co., G. T. Hand, ch. engr., 143 Liberty St., New York, altering grade crossing at East Rush Rd. To exceed $25,000.

N. Y., Yorktown — New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, eliminating Pinesbridge Crossing. To exceed $25,000. Pub. Serv. Comn. hearings in progress on plans to eliminate above crossing.

CONTRACTS AWARDED

Mass., Boston — Commonwealth of Massachusetts, Dpt. P. Wks., heating in office building, Nashua St., to V. J. Kenneally Co., 10 5th St., South Boston, est. exceeds $25,000; electric elevators, to Otis Elevator Co., 130 Clarendon St., Boston, $81,900. Noted Dec. 17, under "Public Buildings."

New Jersey—Pennsylvania R.R. Co., T. J. Skillman, ch. engr., Broad Street Sta., Phila., Pa., steel, concrete overpass to eliminate grade crossing between Belmar and Brielle to Seacoast Iron Wks., Inc., Oakland St., Red Bank. Est. $45,000.

N. Y., Amity—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., structural steel for eliminating Whitcomb Crossing, to Ingalls Iron Wks., 117 Liberty St., New York, $11,219. Noted Apr. 7.

N. Y., Arlington (sta. Staten Island) — Staten Island Rapid Transit Co., Pier 6, St. George, grade crossing elimination, South St., to Bates & Rogers, Standard Bank Bldg., Cleveland, O. Est. exceeds $25,000.

DAMS

PROPOSED WORK

Calif., Los Angeles—Los Angeles Co. Flood Control Dist., 202 North Bway., plans Eaton Wash Dam, earth fill $530,914, maturity in early summer, also concrete channel $1,000,000. Plans of County Planning Comn. for this area include in addition to flood control wrk, scenic hy. along Eaton Wash from foothills to San Pasqual St., construction of parks to form large recreational area. E. C. Eaton, 202 North Bway., engr.

BIDS ASKED

Wash., Bellingham—Apr. 21, by Comrs. Whatcom Co., replacing 1,200 ft. wing dam in Nooksack River, Pioneer Park, Ferndale; rebuilding road washed out in recent floods. $21,000. C. McCoy, Bellingham, co. engr.

PIERS AND WHARVES

PROPOSED WORK

Pa., Donora—LOADING DOCK—Cashion Slag Co., Butler, plans wood or concrete piling loading dock, concrete platform, also installing conveyor equipment for lowering slag into barges. $35,000 to $50,000. Private plans.

BIDS ASKED

N. J., Atlantic Highlands—PIER—See "Contracts Awarded."

CONTRACTS AWARDED

Calif., Stockton—WHARVES—City, rein.-con. wharves, to Merritt-Chapman & Scott Corp., 720 Wilmington Rd., San Pedro, $351,106. Noted Mar. 25.

N. J., Atlantic Highlands—PIER—Central Railroad of New Jersey, A. E. Own, ch. engr., Jersey City, altering and repairing pier, day labor. To exceed $25,000.

POWER AND LIGHTING

PROPOSED WORK

Okla., Oklahoma City—Oklahoma Gas & Electric Co., 321 North Harvey St. plans underground power distribution system on Harvey, Robinson and Hudson Sts. $25,000. Byliesby Eng. Co., 231 South La Salle St., Chicago, Ill., engr.

BIDS ASKED

New York—Apr. 26, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, furnishing, installing station and tunnel lighting equipment, incl. electric heating and ventilation for part Independent System City-owned Rapid Transit Railroads, extending between and adjacent to Smith-9th St. to Church Ave. Stations, Brooklyn Boro; ventilation equipment for line A from Hudson Terminal to Jay St. and Line B from Concord St. to Avenue C, Manhattan and Brooklyn Boros.

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CONTRACTS AWARDED

California—Southern Cities Gas Co. 810 South Fowler St., Los Angeles, steel pipe contract, 75 mi. natural gas pipe line from Huntington Beach to La Jolla, to Natural Tube Co., San Francisco, and 71 Bway., New York. Est. $1,000,000. Noted Apr. 7.

Calif., San Francisco—City, ornamental lighting on Sloat Blvd. between 19th Ave. and Great Hy., to H. C. Reid Co., 389 Clementina St., $18,167, not incl. standards to be furnished by city.

N. Y., Brooklyn—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, furnishing power equipment for Fulton St. Line, Independent System of City-Owned Rapid Transit Railroads, to Westinghouse Electric & Mfg. Co., 159 Bway., New York, $1,290,860. Noted Feb. 11.

Tex., San Antonio—See "Waterworks."

PARKS AND SPORTS

PROPOSED WORK

Calif., Los Angeles—Cancelled bond election to have been held May 3, $3,000,000, park improvements. Noted Apr. 7.

Conn., Bridgeport — City, Bd. Park Comrs., municipal golf club for public at Wheeler Park. $25,000. E. Caldwell, 886 Main St., engr. Mrs. D. F. Wheeler financing project.

Conn., Greenwich — Town, Bd. Recreation, municipal golf clubhouse addition, Bruce Park. $25,000. Blogett & Cramer, 14 West 45th St., New York, engrs.

Ill., Blue Island—City Park Bd., City Hall, I. C. Maroney, pres., improving 20 acre site between 127th St. and Grand Trunk R.R. for park. Maturity depends on passing bond issue. A. Fox, City Hall, engr.

Ill., Elmhurst—Elmhurst District Park, O. Heper, pres., 224 South York St., sketches swimming pool and bath house, between Shiller and 3rd Sts. $50,000. **Maturity in late fall or early in 1933.** Architect not appointed.

Me., Phillips—Town, D. F. Field, chn. Investigating Com., gymnasium. $25,000-$30,000. Engineer not appointed.

Mass., Fall River—Alumni Assn., E. Eifford, 338 Locust St., concrete stadium and dressing quarters at Alumni Field. $25,000 or more. Private plans.

N. J., Jersey City—Bd. City Comrs., City Hall, preliminary plans rein.-con. stadium at Pershing Field. $25,000. P. Guise, c/o owner, engr.

N. J., Passaic—Bd. Comrs., B. F. Turner, park comr., City Hall, preliminary plans park, recreation center, 3rd Ward Park. $25,000. Owner may build by day labor. J. F. Kelly, 157 Prospect St., engr.

Ont., Port Stanley — Town, reconstructing amusement park, incl. casino, dance hall, etc. $100,000.

BIDS ASKED

Mass., Boston—Apr. 28, by Park Dpt., 33 Deacon St., excavating, grading, concrete steps, at Parker Hill Playground, Roxbury, $25,000.

Utah, Salt Lake City — See "Contracts Awarded."

CONTRACTS AWARDED

N. J., Paterson—Bd. Educ., City Hall, concrete stadium, 3,500 seating capacity, at Eastside High School Athletic Field, to Samworth & Hughes, 177 Van Houten St.; plumbing, to F. A. McBride, 327 Grand St. Est. $25,000.

N. Y., Long Island City—Park Bd., W. R. Herrick, pres. Park Dpt., Arsenal Bldg., Central Park, New York, walks on Rose Ave., Kissena Park, to O. B. Junior Contg. Co., 95-01 143rd St., Jamaica, $10,599; grading area Barclay St. and wading pool, Astoria Park, also cold asphaltic concrete surfacing walk from North Hempstead Turnpike to Lake, Kissena Park, to P. K. Kelly Contg. Co., 69-34 51st Ave., Winfield, $1,728 and $3,869 respectively; cold asphaltic concrete surfacing Bailsey Park, to Gramaglia Eng. Co., 5037 Fieldstone Rd., New York, $7,985. Grand total $24,181. Noted Dec. 31.

N. Y., Long Island City—Park Dpt., Arsenal Bldg., Central Park, improving mall spaces on 44th Dr., to Gottlieb Iron Wks., 63 North Henry St., Brooklyn, $11,353; reconstructing golf links Forest Park, to Stiles & Van Kleek, $37,180. Noted Jan. 7.

N. Y., New York—Park Bd., W. R. Herrick, pres. Park Dpt., Arsenal Bldg., Central Park, reconstructing playground in Annunciation Park, to T. DiRoma, 10 West Fordham Rd., $13,939; altering Hall of the Age of Mammals at Museum of Nautral History, to Eastern Constr. Co., 110 West 40th St., $20,615. Noted Jan. 7.

Utah, Salt Lake City—Saltair, Beach Co., c/o A. Snow, mgr., amusement devices, rebuilding roller coaster, etc., day labor. $100,000. Noted Mar. 31.

Man., Winnipeg—Osborne Stadium Co., Whitehall and Colony Sts., covered stands with seats, open bleachers, modern dressing rooms, nonglare floodlight system for night sports, lockers with complete shower bath for each, at sports stadium, to Borrowman & Jamieson, 902 Union Trust Bldg., $30,000. Total cost $60,000. Noted Jan. 28.

HEATING AND VENTILATING

BIDS ASKED

N. Y., New York—Apr. 29, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., furnishing, installing ventilation equipment for Line C, from 145th St. to Webster Ave., and station and tunnel lighting equipment, inc. heating, ventilation, for part Independent System City-owned Rapid Transit Railroads.

N. Y., Whitestone—Apr. 21, by W. C. Martin, archt. and supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, heating, ventilating, plumbing, drainage, electrical work and lighting fixtures in P. S. 79 addition, 147th and 149th Sts., 15th Dr. and 15th Rd., for Bd. Educ., 500 Park Ave., New York.

CONTRACTS AWARDED

ELECTRICAL EQUIPMENT—**Boston, Mass.**—City, Transit Dpt., 1 Beacon St., furnishing, delivering electrical power equipment for vent buildings, East Boston and Boston Traffic Tunnel, to Westinghouse Electric & Mfg. Co., 10 High St., Boston, $149,769. Noted Mar. 17.

UNCLASSIFIED

PROPOSED WORK

Ariz., Prescott—SHAFT—Money Metals Exploration Co., Prescott, plans new head frame installing compressors, diesel engine and sinking shaft to 800 ft. $150,000.

Ariz., Salome — MINE IMPROVEMENTS—Anozira Minings & Milling Co., preliminary plans improving 500 ton mill and mine equipment and constructing administration, hospital and recreational building. $600,000. J. B. Pitblado, I. W. Hellman Bldg., Los Angeles, Calif., pres.

Colorado—TELEPHONE IMPROVEMENTS—Mountain States Telephone & Telegraph Co., 931 14th St., Denver, telephone line and building extensions in Colorado, Idaho, Montana, Arizona, Utah, Wyoming and New Mexico during 1932. $7,000,000 (1932 budget). Noted Mar. 26, 1931.

Conn., New Haven—LABORATORY—John B. Pierce Foundation, H. G. Ullman, Yonkers, N. Y., plans by H. L. Quick, 18 Getty Sq., New York, 2 story, 45 x 58 ft., brick hygienic laboratory, Liberty St., and Congress Ave. $40,000. Noted Jan. 7, under "Buildings—Unclassified."

Ky., Louisville—BROADCASTING STATION—Courier-Journal and Louisville Times Publishing Co., 330 West Liberty St., owners of Radio Station WHAS plan remodeling broadcasting studios, installing new broadcasting equipment.

N. Y., Geneseo—STABLE—Adjutant General, Capital, Albany, plans stable for Troop 1, One Hundred Twenty-first Cavalry, New York State National Guard. $50,000. Governor signed bill.

Texas and Mexico—NATURAL GAS and CRUDE OIL PIPE LINES—Calif.-Texas Leasing Co., c/o Jas. F. Sadler, 810½ South New Hampshire Ave., Los Angeles, Calif., and Presidio Petroleum Co., Presidio, H. R. Rowe, local representative, Midland, Tex., surveys 660 mi. 10 or 12 in. c.i. bell or welded joint pipe, natural gas pipe line from terminus at Midland, Tex., to Topolobampo, Mex., with branch line at Chihuahua City to Torreon and possibly to Mexico City, Mexico; also 660 mi. crude oil pipe line probably 12 in. c.i. screw joint, from Midland, Tex., to via Chihuahua City to Topolobampo, Mex. Private plans. Charter is expected to be granted soon. Interested pipe or building contractors should communicate with owner or Mr. Rowe.

Tex., San Antonio—SUB-DIVISION DEVELOPMENT—Monticello Sales Co., c/o J. M. McQuown, Bedell Bldg., receiving estimates on installation concrete sidewalks, curbing, asphalt on caliche base paving, pipe and appurtenances for 8,000 ft. sewer, 10,000 ft. water and 9,000 ft. gas lines on 30 acre sub-division. Private plans.

Utah—REPLACING POLES—Western Union Telegraph Co., C. J. Ince, genl. mgr. Mountain Div., 917 17th St., Denver, Colo., preliminary plans replacing poles in northern Utah. $100,000.

Va., Tazewell—DRILLING WELLS—Penn-Ohio Gas Co., subsidiary Benedum-Trees interests of Pittsburgh, Benedum Trees Bldg., Pittsburgh, Pa., c/o W. A. Post, Tazewell, land agt., drilling experimental wells on 500,000 acres in 5 counties of southwestern Virginia. Contract for several experimental wells of 6,000 ft. maximum depth, awarded to E. M. Shields, Butler, Pa., and Mount Pleasant, Mich., at $60,000 each; concrete for other wells to be let soon as possible.

Ont., Moosonee — TOWNSITE DEVELOPMENT—Ontario Govt., Moosonee and Toronto, James Bay division of Temiskaming & Ontario Ry., S. B. Clement, North Bay, ch. engr., plan townsite development, incl. hotel, water system, at new seaport James Bay, 300 acres north side of Moose River.

BIDS ASKED

N. J., Paterson — TANKS — See "Contracts Awarded."

N. Y., Napanoch—REFRIGERATION WORK—Apr. 29, by Commissioner Dpt. Correction, State Office Bldg., Albany, refrigeration work,

Unclassified (Continued)

storehouse, Institute for Defective De-linquents; adv. E. N.-R. Apr. 14.

Utah, Salt Lake City—BROADCASTING STATION—City Comn. taking bids 100 watt police radio broadcasting station to communicate with police automobiles throughout city. W. D. Beers, city engr.

Ontario—TELEPHONE EXTENSIONS—See "Contracts Awarded."

CONTRACTS AWARDED

Conn., Meriden—LANDSCAPING—State, State School for Boys, grading, landscaping, wrecking old building, at State School for Boys, to L Suzio Constr. Co., State St. Est., $33,600. Est. $25,000. Noted Mar. 17.

Mass., Fall River — ELECTRICAL WORK — Union Hospital, J. Smithies, supt., 338 Prospect St., electrical work in nurses' home and hospital, Prospect St., to Chase Electric Co., 150 Pocasset St. Est. $25,000. Noted Jan. 21, under "Hospitals."

Neb., Omaha—GAS PURIFIER—Metropolitan Utilities Dist., 18th and Harney Sts., gas purifier and gantry, to Semet-Solvay Co., 40 Rector St., New York, N. Y., $18,790. Noted Mar. 17.

N. J., Paterson—TANKS—P. S. Kramer, 7 Smith St., steel asphalt storage tanks at 81-95 Barclay St., separate contracts. $25,000. Private plans.

N. Y., Arlington (sta. Staten Island)—STATION, etc.—Staten Island Rapid Transit Co., Pier 6, St. George, station, shelter and platforms, South St., to P. M. Sterling, 230 Park Ave., New York. Est. exceeds $25,000.

N. Y., New York — SHOE BEAMS-MOTOR LEAD EQUIPMENT—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., shoe beams-motor lead equipment and transit insulation on cars in 207th Street Yard, Agreement "LQ," to T. F. Mullaney Eng. Corp., 313 West 37th St., $8,413. Noted Mar. 24.

N. C., Raleigh—PRISON CAMP WORK—State Hy. Comn., Raleigh, plumbing for 4 prison camps, consisting Lee Co. Camp, 1 mi. south of Sanford, Henderson Co. Camp, 3 mi. northwest of Hendersonville, Moore Co. Camp, 1½ mi. east of Carthage and Lenoir Co. Camp, 2 mi. south of Kinston, to Albemarle Plumbing & Heating Co., Albemarle, $7,367; electrical work for Lee Co. and Henderson Co. Camps, to Mill & Marine Electric Co., Gastonia, $870 and $875 respectively, Moore Co. Camp, to Bumgardner Co., Hickory $977, Lenoir Co. Camp, to Kinston Electric Co., Kinston, $958; roofing for Lee Co. and Moore Co. camps to King Roofing & Mfg. Co., Sanford, $1,173 and $1,188 respectively, Henderson Co. Camp, to F. B. Ingold, Hickory $1,575, Lenoir Co. Camp, to Shipp & Whitley, Goldsboro, $1,563; drilling well at Lenoir Co. Camp, to Heater Well Drilling Co., Inc., 408 South Dawson St., Raleigh, $700. Grand total $17,246. Noted Apr. 7.

Ontario—TELEPHONE EXTENSIONS—Bell Telephone Co. of Canada, H.-O. Beaver Hall Hill, Montreal, Que., replacing and improving telephone system on long distance lines between Tillsonburg and Ingersoll, Port Burwell, Simcoe, Springfield, etc., day labor. $25,000. G. C. Kilgour, Tillsonburg, mgr.

MATERIALS

PROPOSED WORK

GRAVEL—**Long Island City, N. Y.**—G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., rejected bids Jan. 11, 13,000 cu.yd. road gravel. Noted Jan. 7.

BIDS ASKED

SAND — **Hartford, Conn.** — Apr. 19, by Bd. Contr. & Supply, J. S. Bush, secy., 11,000 cu.yd. sand, more or less; 1,000 cu.yd. to be delivered at 99 Van Block Ave. and 10,000 yd. in various parts of city as required.

CAST IRON OFFSET BENDS—**Chicago, Ill.** Apr. 19, by Dpt. P. Wks., Room 406, City Hall, furnishing, delivering 100 tons c.i. offset bends at various city pipe yards. M. Reynolds, city engr.

PIG LEAD—**Chicago, Ill.**—Apr. 16, by Dpt. P. Wks., City Hall, A. A. Sprague, comr., furnishing, delivering 100 tons pig lead at various city yards.

GRAVEL—**Monmouth, Ill.**—Apr. 23, by Road Comrs. Warren Co., 25,000 cu.yd. gravel for road surfacing. T. J. Bonderer, Monmouth, engr.

ROAD OIL, etc.—**Indiana**—See "Streets and Roads."

PIPE, LUMBER, etc.—**Ida Grove, Ia.**—Apr. 19, at office Auditor Ida Co., 1,400 ft. rein.-con. and 1,200 ft. corrugated metal or plain concrete pipe, 1,600 lin.ft. creosoted yellow pine posts, 2,500 lin.ft. creosoted yellow pine piling, 30,000 bd.ft. fir and 17,000 bd.ft. creosoted yellow pine lumber.

SAND, etc.—**Minneapolis, Minn.**—Apr. 22, by City, F. S. Gram, purch. agt., 40,000 tons sand and 65,000 tons gravel. N. W. Elsberg, city engr.

SPECIAL CASTINGS—**Minneapolis, Minn.**—Apr. 21, by F. S. Gram, city purch. agt., special castings for Water Dpt. $2,000. N. W. Elsberg, city engr.

BITUMINOUS MATERIALS—**St. Paul, Minn.**—Apr. 26, by State Hy. Dpt., 8,000,000 gal. bituminous materials and applying same on roads.

PIPE—**St. Paul, Minn.**—Apr. 19, by C. A. Carlson, city purch. agt., 43,400 lin.ft. c.i. water pipe. Former bids rejected. W. N. Carey, city engr. Noted Jan. 28.

OIL—**Millville, N. J.**—Apr. 22, by City Council, City Hall, 75,000 gal. slow curing oil. W. Kates, dir. streets.

TAR, etc.—**Trenton, N. J.**—Apr. 19, by Bd. Freeholders Mercer Co., Court House, 86,560 gal. tar Grade A or U2 hot, 1,695 tons crushed slag, 1,165 tons dustless screenings, 725 tons screenings, 18,750 gal. cold tar, 14,260 gal. hot tar, 1,000 tons dustless screenings for Parkside Ave., Prospect St., Pennington-Lawrenceville, Ewingville, Shakunk, Boar Tavern, Pennington Rds.

STEAM ASHES, etc.—**Long Island City, N. Y.**—Apr. 18, by G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., 12,000 cu.yd. steam ashes; 15,000 cu.yd. broken stone; 42,500 gal. asphaltic macadam binder in tank cars; 13,057 cu.yd. cementitious road gravel.

WATER PIPE—**El Paso, Tex.**—Apr. 21, by G. B. Davis, city purch. agt., purchasing 10,000 lin.ft. 4 in., 6,000 lin.ft. 6 in. and 700 lin.ft. 8 in. c.i. pipe, 10 tons special cast iron fittings (pipe may be centrifugally cast, Class 150, or horizontally cast, Class 150 or Class "B" pipe, A.W.W.A. Spec.). H. G. Stacy, City Hall, engr.

WHITE PAINT, etc.—**Toronto, Ont.**—W. J. Stewart, mayor, City Hall, taking bids 1,400 (imperial) gal. white paint, 600 (imperial) gal. green paint, 6,000 lb. arsenate of lead, for Parks Dpt. $7,500. C. E. Chambers, City Hall, parks comr.

CONTRACTS AWARDED

CRUSHED LIMESTONE, etc.—**Chicago, Ill.**—City Dpt. P. Wks., City Hall, to Consumers Co., 20 North Wacker Dr., 30,000 cu.yd. ¾ in. crushed limestone via rail to asphalt plants at $1.55 per ton, 7,000 cu.yd. ¾ in. via truck to asphalt plants at $1.90 per ton, 1,000 cu.yd. 1- to 1½-in.—2 or 3 in. f.o.b. any team truck in Chicago at $1.55 per ton, 30,000 cu.yd. 1-1½-2 or 3 in. f.o.b. truck any part of Chicago at $1.90 per ton, 2,000 cu.yd. screenings f.o.b. any team truck in Chicago at $1.15 per ton, 15,000 cu.yd. screenings f.o.b. truck any part of Chicago, $1.75 per ton. Noted Feb. 4 Daily.

FUEL OIL, etc—**Chicago, Ill.**—City, Dpt. P. Wks., City Hall, 339,000 gal. fuel oil, to Seneca Petroleum Co., 439 West 33rd St., at $0.044 per gal., total $14,922; Trinidad asphalt, to Great Lakes Asphalt & Petroleum Co., 7 South Dearborn St., by rail at $29.34 per ton, truck at $30.34 per ton, total $224,925; 600,000 paving brick, to Wisconsin Lime & Cement Co., 20 North Wacker Dr., at $36 per 1,000, total $21,600; 500,000 flux oil, to American Mexican Refining Co., 11 South La Salle St., at $0.0354 per gal. delivered, total $17,700. Grand total, $279,147. Noted Feb. 2 Daily.

EMULSIFIED ASPHALT—**Boston, Mass.**—City, Supply Dpt., emulsified asphalt for cold tar patching as specified, to Headley Emulsified Products Co., Franklin Trust Bldg., Phila., Pa., $3,595; lead covered cable as specified, to Wetmore-Savage Electrical Supply Co., 76 Pearl St., $5,330; furnishing non-asphaltic road oil as specified, to Trimount Oil Co., 1840 Parkway, Everett, $5,283. Grand total $14,208. Noted Mar. 24.

CRUSHED STONE — **Malden, Mass.** — City, Street and Water Comn., furnishing crushed stone as follows, 2,000 tons No. 1, 600 tons No. 2, 1,000 tons PEA and 300 tons dust, to Rowe Contg. Co., 1500 Salem St., $4,858.

ROAD OIL—**Mankato, Minn.**—City, 150,000 gal. road oil, to Standard Oil Co., Mankato, at $0.0359 per gal.; 1 carload asphalt, to Amer. Bituminous Co., 611 Olive St., St. Louis, Mo., at $0.0989 per gal.

ASPHALT—**St. Paul, Minn.**—City, 400,000 gal. cut-back asphalt, to Standard Oil Co. of Indiana, 3rd and Commercial Sts., at $0.0639 per gal. Noted Mar. 31.

ASPHALTIC ROAD OIL, etc.—**St. Paul, Minn.**—Ramsey Co., 260,000 gal. asphaltic road oil, to Standard Oil Co. of Indiana, 3rd and Commercial Sts., $9,230; 240,000 gal. cut-back asphalt, to Col-Tex Refining Co., Oklahoma City, Okla., and to White Eagle Oil Corp., 606 Vandalia St., St. Paul, $1,875. Grand total $24,020.

PIPE—**Mount Vernon, N. Y.**—City, cast iron water pipe for waterworks, to Donaldson Iron Co., 253 Bway., New York. Est. $15,000. Noted Feb. 25, under "Waterworks."

SAND, etc.—**Mount Vernon, N. Y.**—J. Donohue, purch. agt., sand and stone, to L. Petrillo, East Chester Creek; bituminous road surfacing oil, liq. asphaltum and asphalt emulsion, to Standard Oil Co., 26 Bway., New York; amesite, to Halton Amesite Co., 30 Stevens Ave., Mount Vernon.

PIPE, STEEL, etc.—**North Carolina**—See "Equipment."

BITUMINOUS MATERIAL, etc.—**Cincinnati, O.**—City, furnishing 500 tons bituminous material to Barrett Co., 517 Corr St., $11,930; 10,000 tons sand to John Mueller Co., Wyoming Ave., $18,000; 4,400 tons crushed stone to Cincinnati Quarries Co., 6 East 4th St., $6,424; 200 tons road material to Byrnes Conway Co., 906 Main St., $4,550. Grand total $40,904.

CAST IRON PIPE—**Porthmouth, O.**—City, 8,000 ft. 8 in., 1,500 ft. 6 in. and 500 ft. 4 in. c.i. pipe, 9 tons fittings, to American Cast Iron Pipe & Fdry. Co., 2930 North 16th St., Birmingham, Ala., $6,280; 48 miscellaneous sized valves, to Darling Valve Co., Williamsburg, Pa., $985.

SHELL—**Beaumont, Tex.**—City, furnishing 50,000 tons shell for road work, to W. D. Haden Co., Port Arthur, $90,000.

PIG LEAD, etc.—**Milwaukee, Wis.**—See "Equipment."

PIPE—**Pierre, S. D.**—State Hy. Comn., 1,076 lin.ft. 15- to 30-in. rein.-con. pipe, to Hume Concrete Pipe Co., Sioux Falls, and 28,892 lin.ft. 18- to 42-in. pipe, to Merritt & Starner, Rapid City. Noted Mar. 3.

LIMESTONE DUST, etc.—**Kingston, Ont.**—City, furnishing annual supplies, limestone dust, to Kirkfield Crushed Stone, Ltd., Kirkfield, at $5.85 per ton, f.o.b. Kingston; sand, to L. G. Freeman, 507 Princess St., $1 per cu.yd.; asphalt f.o.b. Kingston, and road oil, to Imperial Oil Co., foot of North St., $20 per ton, and $0.10½ gal., respectively; cement, to Drury's Fuel & Builders Supplies, 235 Wellington St., $2.86½ per bbl.; castings, to T. G. Bishop, King St. E., $4.80 per 100 lb.; rubble stone at $8 per ton and crushed limestone, to R. H. Fair 183 William St.; sewer pipe, to National Sewer Pipe Co., Metropolitan Bldg., Toronto; lumber, to John Peters & Sons, 580 Brock St. Est. $25,000 or more.

EQUIPMENT

PROPOSED WORK

GRADER—**Askov, Minn.**—City purchasing 1 patrol grader. F. Makela, city clk.

GENERATING PLANT—**Vancouver, Wash.**—City Council, bids about June diesel powered electric generating plant. $35,000. A. J. Collings, Vancouver, councilman.

COAL HANDLING EQUIPMENT—**Churchill, Man.**—Federal Govt., purchasing equipment for coal handling and facilities for cattle export. G. Coutts, Dpt. Railways & Canals, Ottawa, Ont., engr.

BIDS ASKED

MANHOLE and HANDBOX COVERS—**Baltimore, Md.**—Apr. 20, by Bd. Awards, furnishing, delivering manhole and handbox covers and frames for use of Mechanical-Electrical Service. W. R. Straus, Municipal Bldg., mechanical electrical engr.

DIESEL ENGINE—**Bryan, O.**—Bd. P. Affairs in market one 1,000 hp. diesel engine for municipal light plant.

CONTRACTS AWARDED

OIL ENGINE, etc. — **Elaine, Ark.** — Elaine Utilities Co., c/o H. H. Thompson, pres., 3891 Galloway Dr., Memphis, Tenn., installing one 100 hp. oil engine direct connected to 75 kva. generator and 10 ton raw water ice plant with 30 ton storage plant for ice in present light, water and telephone plant, own forces. Private plans. Noted Apr. 7, under "Waterworks."

HYDRANTS—**Boston, Mass.**—City, Dpt. P. Wks., post hydrants as specified, to McCulloch Mfg. Co., 200 Old Colony Ave., South Boston, $6,965.

COAL and ASH HANDLING EQUIPMENT—**Blair, Neb.**—City, C. E. Krause, clk., coal and ash handling equipment in boiler room of power plant to Interstate Mchy. & Supply Co., 1006 Douglas St., Omaha, $1,036.

HYDRANT PARTS—**New York, N. Y.**—Dpt. Purchase, Municipal Bldg., high pressure hydrant parts to Dpt. Water Supply, Gas & Electricity, to A. P. Smith Mfg. Co., 545 North Arlington Ave., East Orange, N. J., $5,259.

SCHOOL BUS CHASSIS, etc.—**North Carolina**—State Div. Purchase & Contr., A. S. Brower, dir., Raleigh, furnishing 500 school bus chassis, to Dodge Bros. Corp., 109 South Blount St., Raleigh, Fords, to Sanders Motor Co., 121 East Davie St., Raleigh, Chevrolets, to Pyramid Chevrolet Co., 531 East Ave., Charlotte, G.M.C. to General Motors Truck Corp., 722 South Mount St., Charlotte, Internationals, to Raleigh International Co., Inc., 419 South Wilmington St., Raleigh, Diamond-T, to C. H. Heritage & Co., Greensboro, Corbitts, to Corbitt Motor Co., Henderson, Reos, to Scott-Matthews Reo Co., Winston-Salem; 40,000 yd. sheeting, to A. M. Shrago & Sons, Goldsboro; 100,000 gal. motor lubricating oil, to Standard Oil Co., 26 Bway., New York, 1 carload corrugated metal pipe, to Wheeling Corrugating Co., 9th and Perry Sts., Richmond, Va.; 1 car load corrugated metal pipe, to Dixie Culvert & Metal Co., Raleigh; 200 tons license tag stock, to American Steel & Wire Co., 1st Natl. Bank Bldg., Baltimore, Md.; 21,000 lb. structural steel, to Carolina Steel & Iron Co., Greensboro; 7,800 lb. structural steel, to Dewey Bros., Charlotte & Southern Eng. Co., Charlotte; 1 deep well pump, to Dillon Supply Co., 216 South West St., Raleigh; 1 carload creosoted lumber, to North State Creosoting Co., Wilmington; 2,200 lb. asphalt in drums, to Philip Carey Co., 439 South Cedar St., Charlotte; 2,300 lb. asphalt in drums, to Standard Oil Co. of New Jersey, South Side, Charleston, S. C.; 11,450 lb. reinforcing steel, to Seaboard Steel & Iron Corp., Ostend and Paca Sts., Baltimore, Md.; 3,000 gal. white traffic zone paint, to Kuehnle, Inc., 17th and Vine Sts., Phila., Pa. Total est. $400,000.

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Equipment (Continued)

HYDRANTS, etc.—**Milwaukee, Wis.**—City, J. W. Nicholson, purch. agt., 400 fire hydrants, to Filer & Stowell, 147 East Becher St., $15,552; 550 street lighting transformer coils, to Kuhlman Electric Co., 1043 West Clybourn St., $2,844; 800 valve boxes, 200 top sections, 50 middle sections, 300 extension pieces, to Alabama Fdry. & Pipe Co., 3430 40th Ave., Birmingham, Ala., $3,156; 25 tons pig lead, to National Lead Co., 1534 South 1st St., $1,568; lanterns, to Badger Wire & Iron Wks., 2933 West Cleveland Ave., $3,616; steel pipe and couplings, also galvanized standards, to J. Greenspan & Son, $12,018 and $1,060 respectively. Grand total $39,814.

FOREIGN

Asia, Manchuria—South Manchuria Railway Co., Dairen, plans ammonoum sulphate and chemical works, Dairen. $7,000,000. **Maturity indefinite.**

France, Paris—Warner Bros. Film Co., 321 West 44th St., New York, plans constructing or leasing and equipping motion picture production studios here. To exceed $40,000. **Maturity indefinite.**

Mexico — Calif.-Texas Leasing Co., J. F. Sadler, 810 South New Hampshire Ave., Los Angeles, and Presidio Petroleum Co., Presidio, Tex., H. W. Rowe, Midland, Tex., local representative, sketches export refinery plants, one at Topolobampa and one at Chihuahua, and pipe line from Midland, Tex., to Topolobampo, Mexico.

Mexico, Mexico City — General M. Acosta, secy. Communications & Pub. Wks., Mexico City, preliminary plans 10-year program building highways throughout country. 100,000,000 pesos (approx. $33,000,000).

Mexico, Torrean, Coah — Coahiula State Government, rein.-con. stadium, Greek style, capacity 15,000 people, to Compania Constr. & Colonizadora, Torreon Coah, $75,000.

Union Socialist Soviet Republic — Soviet Government, c/o Amtorg Trading Corp., 261 5th Ave., New York, plans kitchens, incl. bakeries, Leingrad, by day labor; reconstructing and reorganizing steel mill, at Noginisk, by day labor and technical aid contracts, $45,000,000; also United Canned Milk Industry, c/o Amtorg Trading Corp., will build milk condensery, Bashkiria, by technical aid contracts, to exceed $1,000,000.

U.S.S.R., Leningrad—Soviet Government, c/o Amtorg Trading Corp., 261 5th Ave., New York, artificial gas plant, and service lines for 12,500 apartment buildings, by day labor and technical aid contracts. $6,700,000.

Yugoslavia, Vuqovar — Bata Ltd., Zlin, Czechoslovakia, plans subber products manufacturing plant. To exceed $40,000.

Commercial Buildings

PROPOSED WORK

Ala., Birmingham—Burger-Phillips Dry Goods Co., 2013 2nd Ave., N., plans by Miller & Martin, Martin Bldg., store, 20th St. and 14th Ave., N.E. $1,250,000.

Ala., Montgomery—City, W. A. Gunter, Jr., mayor, rebuilding city hall, destroyed by fire. $200,000. Architect not appointed.

Conn., Torrington — Slovak Evangelical Lutheran Church, c/o Wilcox Eng. Co., archts., 24 East Main St., sketches 1 story, basement, brick, stone church, Berry St. $150,000.

Ga., Atlanta—Loews Theatres, 1540 Bway., New York, extensive theatre remodeling. $250,000. **Maturity later.**

Ga., Atlanta — Fulton Co. plans by Hentz, Adler & Shutze, Candler Bldg., North Side School, $125,000; by Edward & Sayward, 101 Marietta St., Lakewood School, $45,000; by Danielle & Beutell, Georgia Savings Bank Bldg., Bolton School, $22,500; by Robert & Co., Bona Allen Bldg., Hammond School, and E. Rivers School addition, $22,500 and $20,000 respectively; by W. J. J. Chase, 140 Peachtree St. N. W., Hope School, $20,000; by E. C. Wachendorff, Standard Bldg., Perkinson School, $20,000; by G. H. Bond, Candler Bldg., College St. School, $15,000; by F. Marye, Walton Bldg., Benton School, $12,500; by Tucker & Howell, Rhodes-Haverty Bldg., Liberty School, $12,500; by Burge & Stevens, 101 Marietta St. N. W., West Haven School, $12,500. Total est. $327,500. Noted Mar. 17.

Ill., Chicago—Jones & Winter Co., 53 West Jackson Blvd., twelve thousand—1 story cottages, incl. restaurants, auto service stations, laundry for World Fair, in suburbs along Illinois Central R.R. $1,000,000. **Maturity in May or June.** Private plans.

Ill., Lemont—Sisters of St. Francis, 4256 West Walton St., Chicago, plans by W. W. Pearson, 1663 East 79th St., Chicago, 4 story, basement convent and school, near here. $200,000. J. R. O'Connor, 1663 East 79th St., Chicago, in charge of construction.

Ill., Park Ridge—City, city hall. **Malturity in late fall or early in 1933.** Architect and site not selected.

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Ill., St. Charles — St. Marks Evangelical Lutheran Church, A. Theise, pastor, 103 West 4th Ave., church. **Maturity indefinite.** Architect not appointed.

Ind., Avon—School Comrs., plans by C. Byfield, 916 Peoples Bank Bldg., Indianapolis, rein.-con., brick, steel, stone grade and high school addition, incl. gymnasium. $150,000.

Ind., Evansville—Dixie Realty Corp., plans by A. S. Graven, Inc., 100 North La Salle St., Chicago, Ill., remodeling theatre, incl. new interior, equipment, plumbing, heating, ventilating, electric wiring, plastering, painting, decorating, 215 Sycamore St. $200,000. **Maturity in late spring or summer.**

Me., Cape Elizabeth—Town, Bd. Selectmen, high school. $150,000. Architect not appointed.

Me., Orono—University of Maine, H. Boardman, pres., 2 wing addition to arts and science building, dispensary practice house for home economics. $150,000 or more. Architect not appointed.

Mass., Boston—City, Dpt. School Buildings, 2 story, basement, brick, stone addition to Wm. Barters Rogers School, Hyde Park, $200,000; 2 story, basement, brick, stone grade school, Dudley Dist., Roxbury, $150,000 or more; 2 story, basement, brick, stone intermediate school, plain found., Bigelow Dist., South Boston, $150,000 or more; altering and constructing 2 story, basement, brick, stone addition to Donald McKay School, plain found., East Boston, $150,000. Architects not appointed.

Mass., Boston—City, Dpt. School Buildings, altering and constructing brick, stone addition to Joseph H. Barnes School, East Boston. $150,000. Architect not appointed.

Mass., Boston—City, Hospital Dpt., sketches by J. H. Ritchie & Associates, 250 Stuart St., surgical research building, at City Hospital, Harrison Ave. $250,000. Noted Dec. 31.

Mass., Brockton—Fraser Dry Goods Co., 144 Main St., store and office building, East Elm St. $150,000 or more. Architect not appointed.

Mass., Cambridge—Boston & Maine R.R. Co., North Station, Boston, 1 story, brick railroad station, Somerville Ave. at Porter Sq. $150,000 or more. Private plans. W. J. Backes, 150 Beverly St., Boston, engr.

Mass., Cambridge—City, Dpt. P. Buildings, reconstructing 4 story, basement municipal building, 7 Western Ave. $150,000 or more. Architect not appointed.

Mass., New Marlboro — Town of Marlboro, Building Com., H. A. Cook, combined high and elementary school. $150,000. Architect not appointed.

Mass., Newton—Andover Newton Theological Institution, E. C. Herrick, pres., 169 Institution Ave., sketches by Kendall, Taylor & Co., 142 Berkley St., Boston, dormitory for married students on campus. $150,000.

Mass., Northbridge—Town, School Superintendent, altering and constructing 2 story, basement, brick addition to Junior High School. $150,000. Architect not appointed.

Mass., Saugus — Town, F. B. Sloan, chn. Building Comn., sketches by R. T. Jackson, 44 School St., Boston, 2 story, basement, brick high school addition. $150,000.

Mass., Wareham—Town, B. C. Merry, chn. com., sketches by W. G. Upham, 700 Washington St., Norwood, altering and constructing 2 story, basement, brick, steel high school addition. $150,000.

Mass., West Roxbury—City of Boston, Dpt. P. Buildings, new police station and new fire station. $300,000 each, appropriated. Architect not appointed.

Mass., Weymouth — Immaculate Conception Roman Catholic Parish, E. F. Murphy, pastor, 1199 Commercial St., brick, stone convent, Commercial St. $150,000. Architect not appointed.

Mich., West Branch—Childrens Tuberculosis Hospital, c/o Bonnah & Chaffee, archts., Barlum Tower, Detroit, plans nearing completion 1 story, 100 x 580 ft. hospital, and 3 story 92 x 150 ft. administration building, brick, rein.-con., steel, stone, plain found. $650,000. Noted Nov. 12.

Minn., Duluth — Oneida Realty Co., R. D. Alworth, pres., 1607 Alworth 1Bdg., ylans by E. R. Erickson & Co., 509 Alworth Bldg., Duluth, and Ellerbe & Co., consult. archts., 525 Minnesota St., St. Paul, 12 story, 115 x 140 ft., granite, stone medical arts office buildings. $1,000,000.

Minn., St. Paul — Bannon's, Inc., 7th and Minnesota Sts., rejected bids department store addition, 7th and Minnesota Sts. $275,000. Buechner & Orth, 500 Shubert Bldg., archts. Will probably revise plans and take new bids.

Mo., St. Louis—Bd. Polic Comrs., 12th Blvd. and Clark Ave., plans by Klipstein & Rathman, 316 North 8th St., 2 story, basement, brick, stone, rein.-con., district polic station, also 1 story garage adjoining, Lafayette Ave. and Preston Pl. $125,000-$150,000. Noted Mar. 31.

N. H., Andover—Town, E. P. Freese, supt. schools, high school. $150,000-$200,000. Architect not appointed.

N. J., Cliffside—St. John Roman Catholic Church, J. E. Kiernan, pastor, 235 Anderson Ave., sketches by P. Schulz, 101 Park Ave., New York, 3 story, basement, 60 x 200 ft. brick, stone, steel, Anderson Ave. To exceed $200,000. **Maturity in October or later.** Noted Feb. 2.

N. J., Hackensack — Hackensack Water Co., Park Ave., Weehawken, sketches by C. V. R. Bogert, 210 Main St., 2 story, basement, brick, steel office, Main St. $150,000. General contract bids July. Noted Feb. 4.

N. J., Lakewood—RADIO BROADCASTING STATION, etc.—D. J. Scrocco, archt., 440 Central Ave., Orange, bids about June, general contract 2 story, basement, 200 x 800 ft. radio broadcasting station, motion picture studio, Pine Forest Manor, for Lakewood Studio Co. and Mercantile Land Co., c/o architect. $1,000,000. Noted Oct. 1.

N. J., Paterson—Owner, c/o J. Holt, archt., 134 Market St., preparing plans 2 story, basement, brick, steel store, office, Fair and Main Sts. $150,000.

N. J., Plainfield—C. C. Zantzinger, archt., Otis Bldg., Phila., Pa., bids about May, general contract rebuildling 2 story, basement, brick, steel church, East 7th St., Crescent and Watchung Aves., for Crescent Avenue Presbyterian Church, J. J. Moment, pres., 815 Park Ave., $150,000.

N. J., Wallington—Bd. Educ., J. F. Moriarty, superv. principal, Main Ave., sketches by J. T. Camlett, 26 Piaget Ave., Clifton, 2 story, basement, brick, steel high school. $150,000.

N. J., West Portal — Bd. Educ., Bethlehem Twp., G. V. Apgar, secy., plans by Jacoby & Everett, Commonwealth Bldg., Allentown, Pa., 1 story, basement school. $150,000.

N. C., Charlotte—Presbyterian Church of U. S. A., H. McCrorey, pres., college, incl. 2 dormitories, administration building and central heating plant, Johnston C. Smith University. $600,000. J. M. Gaston, secy.-asst. treas. Bd. National Missions, Presbyterian Church of U. S. of America, Pittsburgh, Pa.

N. Y., Albany—Bd. Educ. plans Cosmopolitan School. $1,500,000. Architect not appointed.

N. Y., Albany—Trinity Methodist Episcopal Church, 19 Trinity Pl., soon lets contract church, Lark and Lancaster Sts., $400,000. Sundt & Wenner, 1701 Arch St., Phila., Pa., archts.

N. Y., Alfred—Bd. Educ., State Office Bldg., Albany, clay-working and ceramics building, introducing steam from centlal heating plant into old ceramies building and reconstructing greenhouses, at Alfred University, $154,485. Governor signed bill.

N. Y., Catskill—Bd. Educ., T. J. Riley, pres., plans Junior and Senior High school. $350,000. **Maturity 1933.**

N. Y., Geneva—Trinity Episcopal Church, H. O. Palmer, chn. com. in charge, church. $150,000.

N. Y., New York—Metropolitan Square Corp., 60 Bway., plans by Hood & Fouilhoux, and Corbett, Harrison & MacMurrary, 420 Lexington Ave., 2 story, 200 x 307 ft. opera house with roof garden, 48th and 49th Sts. between 5th and 6th Aves.. $4,500,000. Noted July 3, 1930.

N. Y., New York—Metropolitan Square Corp., 60 Bway., plans Hood & Foulihoux and Corbett, Harrison & McMurray, 420 Lexington Ave., 6 story stores display for French art, industry and trade center, in Radio City, 5th Ave. and 49th St. **Maturity indefinite.** LaMaison Francaise, c/o owner, lessee. Noted July 3, 1930.

N. Y., Richmondville—Bd. Educ., plans by R. Graham, 25 Prospect St., Middletown, Central Grade and High School. $150,000. **Maturity this year.**

N. Y., Schenectady—Adjutant General, Capitol, Albany, plans reconstructing and enlarging state armory. Governor signed bill.

N. Y., Ticonderoga—Adjutant General, Capitol, Albany, state armory. Governor signed bill.

O., Cincinati—Western & Southern Life Insurance Co., A. Wachtel, dir. constr., 4th St. and Bway., sketches by D. E. Waid, 1 Madison Ave., New York, office building, Bway. between 4th and 5th Sts. $2,000,000. C. J. Keifer, Schmidt Bldg., engr. Project awaits widening of 5th St.

Pa., Pittsburgh—St. John Chrysostrom Russian Greek Catholic Congregation, J. Macosko, chn. Building Comn., 773 Greenfield Ave., plans by W. W. Williams, 331 4th Ave., and soon takes bids 2 story, basement, 56 x 113 ft., brick, hollow tile church, 504 Forward Ave.

R. I., Coventry—Town, J. Butler, combined Junior and Senior High School. To exceed $150,000. Architect not appointed.

S. C., Columbia—State Prison, J. N. Pearman, supt., Columbia, replacing 10 workshops, destroyed by fire. $150,000.

BIDS ASKED

Conn., Hamden—Town, G. Williams, chn. building com., Evergreen Ave., bids about June 1, 2 story, basement, 60 x 480 ft., 70 x 100 ft., and 60 x 100 ft., brick, steel high school, plain found., Dixwell Ave. $700,000. A. W. Foote, 185 Church St., New Haven, archt. Noted Feb. 25.

Conn., Norwich—Apr. 20, by Norwich Free Academy, C. B. Palmer, pres., 2 story, basement, 75 x 240 ft., brick, steel commercial high school unit, Crescent Ave. $300,000. Chandler & Palmer, 114 Thayer Bldg., archts. Noted Mar. 31.

Conn., Watertown—St. John's Roman Catholic Parish, J. C. Tuelings, pastor, bids last week in April, 1 story, basement, stone church and

Commercial Bulidings (Continued)

steeple, Main St. $150,000. Cram & Ferguson, and R. A. Cram, 248 Boylston St., Boston, Mass., archts. Noted Dec. 17.

Mass., Boston—See "Contracts Awarded."

Mass., Cambridge—Apr. 22 (extended date), by St. Peters Episcopal Church, and Allen & Collens, archts., 75 Newbury St., Boston, remodeling, 2 story, basement, brick, steel church, plain found., Mass. Ave. and Vernon St. $150,000 or more. Noted Mar. 24.

Mass., New Bedford—Apr. 18, by St. Joseph's Roman Catholic Parish, J. A. Chagnon, pastor, Acushnet Ave., and F. A. Rousseau, archt., 271 Union St., 1 story, basement, brick, stone church, plain found., Acushnet Ave. $300,000.

Mass., New Bedford—Apr. 21, by Mt. Carmel Roman Catholic Church, A. P. Viorira, pastor, 230 Bonney St., and H. Fallows, archt., 131 Stewart St., Fall River, 2 story, basement, brick, stone parochial grade school, plain found., Rivet and Bonney Sts. $150,000. Noted Dec. 24.

N. H., Manchester—Apr. 22, by Elliott Hospital, J. B. Smith, chn. building comn., 83 Bay St., and C. R. Whitcher, archt., 812 Elm St., altering and constructing 3 story, basement, brick hospital addition, plain found., Auburn St., $150,000. Noted Feb. 25.

N. J., Bayonne — Hudson County Parental School, 1241 Blvd., bids about May 2, general contract 2 story, basement, brick, steel chapel and garage, Hudson Blvd. $150,000. C. H. Ziegler, 26 Journal Sq., archt. Considering using student labor and buying materials. Noted Jan. 28.

N. J., East Orange — Apr. 18, by S. H. Kress & Co., 114 5th Ave., New York, general contract 2 story, basement, brick, steel store, office, Central Ave. $150,000. E. F. Sibbert, 114 5th Ave., New York, archt. Noted Feb. 18.

N. J., Englewood—Owner, c/o P. H. Butler, archt., 16 Depot Sq., bids about May 2, general contract 3 story, basement, 100 x 155 ft., brick, steel, terra cotta store, apartment, Palisade Ave. $150,000.

N. J., Morristown—See "Contracts Awarded."

N. J., Mount Bethel—Apr. 25, by Bd. Educ., Warren Twp., J. F. Mundy, pres., 2 story, basement, 128 x 128 ft., brick, stone, rein.-con. school. $150,900. Fisher & Brown, 102 North Ave., Plainfield, archts.

N. J., Newark—Roebling Coal Co., Inc., M. Rosenfield, in charge, 134 Frelinghuysen Ave., taking new bids general contract 2 story, basement, brick, steel, terra cotta office, Frelinghuysen Ave. $150,000. J. B. Acocela, 9 Clinton St., archt. Noted Jan. 28.

N. J., Newton — Missionary Fathers Little Flower Monastery, bids after April 15, 2 story, basement, brick, steel missionary training school, $150,000. G. E. Steinback, 157 West 74th St., New York, archt. Noted Feb. 18.

N. J., North Haledon—Apr. 18, by J. Bellomo, archt., 6 Park Ave., Paterson, general contract, masonry, steel, plumbing, heating and electrical work for 3½ story, basement, 50 x 110 ft., brick, steel chapel, for Owner, c/o archt. $150,000. Noted Mar. 17.

N. J., Ridgefield—Bd. Educ., Prospect Ave., bids about May 15, 2 story, basement, brick, steel addition to School 3, Bergen Blvd. $150,000. T. Watson, 580 Prospect Ave., archt. Noted Feb. 2.

N. J., Union City—P. L. Schultz, archt., 256 Summit Ave., taking bids on revised plans 2 story, basement, 75 x 115 ft., brick, stone, steel, store and office, Summit Ave., for S. and F. Slatkin, 17 Oak St., Weehawken, $150,000. W. Mahnken, 256 Summit Ave., assoc. archt. F. W. Woolworth Co., 1500 Chestnut Ave., lessee. Noted Dec. 3.

N. Y., Brooklyn—Nurses Club of Brooklyn bids about June 1, club, Washington and Greene Aves. $450,000. Bowden & Russell, 19 West 44th St., New York, archts. Noted Feb. 11.

N. Y., Brooklyn—See "Contracts Awarded."

N. Y., Chestertown—Apr. 23, by Bd. Educ., central grade and high school. $150,000. C. W. Clark, Cortland, archt.

N. Y., New York—See "Contracts Awarded."

N. Y., New York—Bd. Educ., 500 Park Ave., soon takes bids altering and constructing addition, Stebbins Ave. $205,000. W. C. Martin, Flatbush Ave. extension and Concord St., Brooklyn, archt. Noted Mar. 3.

N. Y., New York—Apr. 20, by Mount Sinai Hospital, 1 East 100th St., 5 story dispensary, new drug room, freight elevator, 101st St. and 5th Ave. $150,000. Gehron & Ross, 101 Park Ave., archts. Noted Mar. 3.

N. Y., New York—New Manhattan Apartments, Inc., 551 5th Ave., taking bids steel for 12 story, 100 x 103 ft. apartment, 62 Henry St. Total est. $1,000,000. R. S. Pallenson, 551 5th Ave., archt. Soon takes bids on other separate contracts. Noted Mar. 31.

Pa., Pittsburgh — Second Presbyterian Congregation, C. E. Miller, engr., in charge Building Comn., Jenkins Arcade, takes bids about Apr. 15, 1 to 4 story, basement, 90 x 180 ft., church, North Ave. and Palo Alto St. $1,000,000. G. E. Savage, Witherspoon Bldg., Phila., archt. Noted Jan. 7.

Ont., Toronto—Apr. 21, by Toronto Hydro-Electric System, 225 Yonge St., 9 story, basement, concrete, steel office building, Carlton St. $1,000,000. Owners Staff and Chapman & Oxley, Sterling Tower, archts. Noted Sept. 24.

CONTRACTS AWARDED

Calif., San Francisco—H. A. Minton, archt., Bank of Italy Bldg., group rein.-con. college buildings, for Sisters of Sacred Heart, to Paganini, 519 California St., $254,897. Noted Mar. 17.

Conn., Morris — Town, Wm. Kirchbreger, chn. building com., 1 story, 52 x 90 ft. and 60 x 70 ft., brick, steel high school, community building, jail and town hall, to Tracy Bros. Co., 52 Benedict St., Waterbury. Noted Mar. 31.

Conn., New London—Smith Memorial Home, 20 Masonic Ave., 3 story, 35 x 120 ft. and 35 x 47 ft., brick, steel home, Vauxhall and Union Sts., to H. R. Douglas & Son, 979 Pequot Ave. Est. $150,000. Noted Jan. 7.

Ill., Chicago—State of Illinois, Capitol Bldg., Springfield, general contract 2 story, 49 x 145 ft. irregular sized, brick, Bedford limestone, terra cotta dining hall, laundry addition and boiler room, 904 West Adams St., to Schmidt Bros., 22 East Huron St. Work on foundation started. Total est. $180,000.

Ill., Oak Park—Forsyth Building Corp., altering and constructing 3 story, basement, rein.-con. store addition, plain found., Lake and Marion Sts., to Dahl-Stedman Co., 11 South La Salle St., Chicago.

Ind., Lafayette—Purdue University, general contract Unit 2, Mechanical Engineering Building, 3 story, basement, 60 x 230 ft., rein.-con., brick, stone, to A. E. Kemmer, 3rd and Brown Sts. Est. $200,000. Noted Mar. 24.

Ind., Muncie—Ball State Teachers College, general contract 3 story, basement, rein.-con., brick, stone addition to Indiana State Teachers College Library, to M. B. Welch Constr. Co., Rockville. Est. $150,000. Noted Mar. 17.

Ia., Cedar Rapids—Sisters of Mercy, Green Terrace N. E., 4 story, basement, brick, concrete academy addition incl. two 4 story, basement, 40 x 170 ft., wings containing dining room, club room, class rooms, dormitory, swimming pool, gymnasium, etc., to Lightner Bros., 92 Second Ave. S. E. Est. $200,000.

Mass., Brookline — Harvard Congregational Parish, A. G. Leavitt, pastor, 1 story, 110 x 165 ft. and 57 x 64 ft. brick, limestone, granite church, to Turner Constr. Co., 137 Newbury St., Boston. Est. $250,000. Noted Mar. 24.

Mass., Boston—Houghton & Dutton Co., 55-63 Tremont St., altering 8 story, basement, 145 x 90 x 265 ft., brick, stone department store, day labor. $150,000. Private plans.

Mass., Cambridge—Harvard University, A. L. Lowell, pres., 2 story, basement, brick, steel, "Fogg" art museum addition, plain found., to Hegeman-Harris Co., 185 Devonshire St., Boston. Est. $150,000 or more. Noted Apr. 7.

Mass., Taunton—St. Mary's Roman Catholic Church, J. J. Shay, pastor, heating and ventilating in high school, Summer St., to P. V. McGlynn, 35 Prospect St. Est. $25,000 or more. Noted Sept. 3, under "Churches."

Mich., Battle Creek — Albert Kahn, Inc., archt., 1000 Marquette Bldg., Detroit, 3 story, basement, brick, steel, rein.-con. Junior High School and auditorium, plain found., North McCamly St., to L. J. Laird, Battle Creek, for City. Est. $500,000. Noted Aug. 20.

Mich., East Lansing—State Administration Bd. Lansing, 2 story, basement, brick, steel, rein.-con. dining hall and boiler room addition at State Police Building, Grand River; to F. C. Trier, Saginaw, $61,152.

Mich., Grand Rapids—City, 2 story, basement, brick, steel, rein.-con. civic auditorium, plain found., to Owen Ames Kimball Co., Grand Rapids. Est. $250,000. Noted Dec. 3.

Mich., Negaunee—St. Paul's Catholic Church, Negaunee, 2 story, basement, 130 x 165 ft., brick, rein.-con., steel, school, incl. auditorium, gymnasium and convent buildings, plain founds., to Hutter Constr. Co., Fond du Lac, Wis. Est. $150,000.

Minn., Minneapolis—Stebbins, Haxby & Bissell, and C. F. Leighton, archts., 111 Nicolet Ave., general contract 2 story, basement, brick, steel, stone school to McGough Bros., 1954 University Ave., St. Paul, for Church of Holy Rosary, 2424 18th Ave. Est. $150,000. Noted Dec. 10.

N. J., Irvington — A. M. Kleeman, archt., 960 Springfield Ave., general contract 2 story, basement, brick, steel, funeral parlor, to Herrman Constr. Co., 559 South 10th St., Newark; carpentry, to Zacher & Kurrle, 826 South 20th St., Newark; heating, to J. H. Nells Co., 835 Springfield Ave., plumbing, to G. Bauman's Sons, 584 Hunterdon Ave., Newark; electrical work, to Swanson & Stehle, 710 Springfield Ave., Newark. Est. $150,000. Noted Feb. 18.

N. J., Maplewood—Bd. Educ., School Dist. of South Orange and Maplewood, M. Pryor, clk., Parker Ave., general contract 2 story, basement, brick, steel addition to Clinton School, 35 Berkshire Rd., to Eastern Building Co., 270 Fabyan Pl., Newark, plumbing, to J. E. Joyce, 84 South 6th St., Newark; heating, to F. P. Farrell, 269 Camden St., Newark; electrical work, to Commercial Electric and Machine Co., 180 Mulberry St., Newark; steel, to H. R. Goeller, Inc., Hillside Ave., Hillside. Est. $150,000.

N. J., Morristown—Lewis Development Co., 253-02 Northern Blvd., Little Neck., N. Y., developing 250 acre track into acre plots, incl. cottages, Mount Kemble Ave., separate contracts. To exceed $200,000.

N. Y., Brooklyn—Corporation, c/o W. Kruesi, 66 Court St., 6 story apartment, Park and Carleton Aves., separate contracts. $150,000. W. T. McCarthy, 147 Pierrepont St., archt.

N. Y., Brooklyn—Ess Three Corp., H. Lefrack, pres., 4210 Church Ave., 6 story, 104 x 120 ft. apartment, Empire Blvd. and Schenectady Ave., separate contracts. $200,000. Kavy & Kravoitt, 350 Stone Ave., archts.

N. Y., Flushing — Paramount Homes, Inc., 107-63 114th St., Richmond, 1½ story, 28 x 53 ft. brick dwellings, 194th St. and 50th Ave., to Cahill Constr. Co., 107-63 114th St., Richmond Hill. Est. exceeds $200,000.

N. Y., New York—R. Manowski, Hotel Roosevelt, 47 story office, 5th Ave. and 39th St. **Maturity indefinite.** Demolition contract awarded to M. Fine Corp., 1133 Bway. Former project abandoned. Noted Sept. 3, 1932.

N. Y., New York—Museum of French Art, French Institute in United States, 20 East 60th St., Museum and office, 20 East 60th St., to J. C. O'Brien, Bridge Plaza, Long Island City. Est. exceeds $150,000.

N. Y., New York—E. J. Moberg Co., Inc., 2465 East Tremont Ave., group 2 story, 21 x 31 ft. brick dwellings, Powell and Olmstead Aves., by separate contracts. $150,000. A. Pirner, 2742 East Tremont Ave., archt.

N. Y., New York—Todd, Robertson & Todd Engineering Corp., 347 Madison Ave., air conditioning equipment in 2 theatres, in Radio City, to Carrier Eng. Corp., 850 Frelinghuysen Ave., Newark, N. J., for Metropolitan Square Corp., 60 Bway. Est. exceeds $600,000. Noted Mar. 19.

N. Y., West New Brighton—B. P. O. E. No. 841, Amboy Rd., Oakwood, general contract altering 2 story, basement, brick, steel club house, at Oakwood, to Stanley Cassazzone, 30 McLaughlin Ave., South Beach. Est. $150,000. Noted Mar. 31.

N. C., Fayetteville—State, Building Comn., State Normal School, H. L. Cook, chn., general contract dormitory and training school at Negro State Normal School, to Beaman-Coleman Constr. Co., Lawyers Bldg., Raleigh, $85,112; plumbing, to A. E. Cumber, Wilmington, $8,600; heating, to Waldrop Co., Rock Hill, S. C., $8,990. Grand total $102,702. Noted Mar. 24.

R. I., Providence—St. Charles Boromeo Roman Catholic Church, and W. F. Fontaine, archt., 285 Main St., Woonsocket, 2 story, basement, brick, stone parochial grade school, plain found., to E. Turgeon, 36 Exchange Pl. $150,000 or more. Noted Mar. 31.

Tex., College Station—A. & M. College, c/o F. M. Law, pres., 3 story, 114 x 256 ft., brick, stone, rein.-con., steel agricultural building to Walsh, Burney & Key, 928 North Flores St., San Antonio. Est. $200,000. Noted Mar. 17.

Tex., San Antonio—Bd. Educ., Lavaca and Water Sts., Senior High School (colored), 2 and 3 story, rein.-con., brick, incl. auditorium, offices, and gymnasium, etc., plain found., to Moeller & Weilbacher, Willow St., $151,000. Noted Nov. 12.

Ont., Gravenhurst — National Sanatorium Assn., 223 College St., Toronto, structural steel work for 5 story, basement sanatarium addition, to Reid & Brown, Fleet St., Toronto; electrical work, to D. A. Hills, 184 Glenview Ave., Toronto; excavation, to Ronco Bros., 224 Rosemount Ave., Toronto; stone, to G. Oakley, 357 Logan Ave., Toronto; millwork, to R. Laidlaw Lumber Co. Ltd., 2268 Dundas St. W., Toronto; plumbing and heating, to Purdy-Mansell Ltd., 63 Albert St. Total est. $250,000. Noted Mar. 17, under "Contracts Awarded."

Ont., Kitchener—Public Utilities Comn., Kitchener, general contract 3 story, basement, stone, steel utilities and office building, King St., to W. H. Yates Constr. Co., 17 Main St. E., Hamilton. Est. $200,000.

Ont., Ottawa — Knox Presbyterian Church, P. Christie, Lisgar and Elgin Sts., structural steel for 1 story, brick church, to Dominion Bridge Co. Ltd., Lachine, Que. Noted Mar. 24, under "Contracts Awarded."

Ont., Toronto—W. W. Pearse, 155 College St., Blythewood Rd. School, 2 story, basement, masonry, to C. W. Wood & Sons, 131 Jersey Ave.; structural steel, to John T. Hepburn Co., Ltd., 18 Van Horne St.; roofing, to N. Cooper, 54 Sumach St.; plumbing and heating to Sheppard & Abbott, 119 Harbord St.; heat regulation to National Regulator Co., 105 Victoria St.; carpentry, to Sharp & Harrison, 84 Kenwood Ave.; electrical work, to Moss Electric Co., 156 St. Clements Ave.; local phones, to Canadian Comstock Co., 80 King St. W.; marble and tile, to Italian Mosaic & Tile Co., 250 Madison Ave. Est. $150,00. Noted Dec. 10.

Industrial Buildings

PROPOSED WORK

Alabama—Alabama Power Co., 600 North 18th St., Birmingham, expending $100,000, rebuilding 44 kv. sub-station, reconstructing transmission lines, communication lines, distribution systems, recently destroyed by tornadoes over the state.

Calif., Long Beach—Long Beach Harbor Dpt., 1 and part 2 story, 82 x 470 ft. transit shed, rein.-con. found., corrugated iron sides, steel roof trusses, composition roofing, concrete floors, sprinkler system, metal doors, electric wiring, at Berth 48, Pier 1. $70,000. R. G. McGlone, City Hall, engr.

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Industrial Buildings (Continued)

Conn., Bridgeport—Dewhirst Dairy, Madison Ave., plans prepared by Fletcher Thompson, Inc., 1336 Fairfield Ave., altering and constructing 1 and 2 story, brick, steel, concrete dairy addition. $40,000.

Conn., Middletown—General Importing Macaroni Mfg. Co., 63 Court St., plans by C. E. Segerberg, 438 Main St., 2 story, 40 x 95 ft., brick macaroni manufacturing buliding addition, $40,000.

Fla., Pensacola—City, G. J. Roark, city mgr., plans new warehouses and other facilities on municipal wharves.

Ia., Sumner—Plans municipal light and power plant. $95,000. H. J. Cory, 1034 Redick Tower Bldg., Omaha, Neb., engr.

Ky., Paducah—Gulf Refining Co., Frick Bldg., Pittsburgh, Pa., bulk oil storage and distribution (water terminal). $40,000.

Mass., Boston — Kraft-Phoenix Cheese Co., 400 Rush St., Chicago, Ill., cheese factory. $40,000 or more. Private plans.

Mass., Boston—New England Trust Co., 135 Devonshire St., sketches by F. T. Hogg, 45 Newbury St., rebuilding mercantile building, Beach and South Sts. To exceed $150,000. Noted Feb. 25.

Mass., Holyoke—C. W. Rackliffe, c/o G. P. B. Alderman & Co., archts., 316 High St., Boston, 1 story, brick, steel service and sales building, plain found., 156 Elm St. $40,000.

Mass., Somerville—City, Dpt. P. Buildings, municipal garage. $50,000. Architect not appointed.

Mass., Springfield—Springfield Safe Deposit & Trust Co., 1200 Main St., plans by T. M. James Co., 164 Stuart St., Boston, bank, 127-131 State St. $150,000 or more.

Mass., Westfield—Westfield Clay Products Co., rebuilding plant. $40,000. Private plans.

N. H., Manchester—Sisters of the Holy Cross, 198 Pearl St., plans by W. E. Provost, 1061 Elm St., 3 story, basement, 60 x 285 ft., brick, steel, stone convent and girls' boarding school. $200,000.

N. J., Carteret—Mexican Petroleum Co., 122 East 42nd St., New York, plans plant addition. $40,000.

N. J., Newark—H. D. Scudder, Jr., archts., 9 Clinton St., made sketches and takes bids about June, 1 story, basement, brick, terra cotta, steel newspaper plant addition, 215 Market St., for Newark Evening News, 215 Market St. $40,000.

N. J., North Bergen—Owner, c/o McDermott & Binda, archts., 582 Bergenline Ave., Union City, sketches 1 story, basement, brick, steel shop building, Van Wagenen Pl. $40,000. **Maturity indefinite.**

N. J., Plainfield—Plainfield Lumber Supply Co., 403 Brickman St., sketches 1 story, basement, brick, steel, garage, $40,000. Private plans.

N. J., Teaneck—Owner, c/o G. W. Swiller, archt., 535 East Tremont Ave., New York, plans 1 story, 100 x 100 ft. auto repair shop, laundry and greasing building, Cedar Lane. $50,000. Maturity after July 1.

N. J., Union City—Owner, e/o K. Willaredt, archt., 411 23rd St., West New York, 2 story, basement new distribution plant, office building and stable (alteration), Hudson Blvd. $40,000.

N. Y., Brooklyn—F. H. Bookhop Co., 451 38th St., sketches by M. Klein, 65 Court St., 2 story, 25 x 96 ft. garage and storage, 38th St. and 5th Ave.

N. Y., Brooklyn—M. Friedman, 236 Montgomery St., sketches by S. L. Malkind, 93 Court St., 1 story, 100 x 120 ft. service garage, Utica Ave. and Winthrop St.

N. Y., Brooklyn—I. Harms, 277 Moffat St., sketches by G. D. Prowler, 367 Fulton St., 1 story, 100 x 100 ft. gas station and service garage, Moffat St. and Knickerbocker Ave.

N. Y., Brooklyn—L. Schwartz, 634 Elton St., sketches by L. Kirshenblit, 1125 Eastern Parkway, 1 story, 60 x 100 ft. service garage, Ashford St. and New Lots Ave.

N. Y., New York—Augoletti, 3829 Harker Ave., sketches 1 story, 40 x 46 ft. service garage, Booton Rd. and Heath Ave. Private plans. J. J. Saunders, c/o owner, agent.

N. Y., New York—W. Peat, 2436 Grand Concourse, bids after July 1, 2 story, 100 x 150 ft. service garage, 416 West 204th St. S. J. Kessler, 125 West 45th St., archt. Noted Mar. 31.

N. Y., New York—Rubel Coal & Ice Co., Fulton St. and Waverly Pl., Brooklyn, altering sketches by A. H. Eccles, 41-21 29th St., Long Island City, 2 story, 66 x 97 ft. manufacturing plant St. Anns Ave. and 159th St.

N. Y., New York—Two Streets Corp., A. O. Englander, pres., 295 Madison Ave., sketches by J. Harrison, 220 East 42nd St., altering from 1 to 3 story studios into service garage, 146 East 25th St. $40,000.

N. Y., Syracuse—Lowman Folding Box Co., 736 North Clinton St., altering plant for manufacture of fibre containers. $40,000 with equipment.

O., Cleveland—Wm. A. Howe Co., 2630 Payne Ave., sketches by J. Boenisch, 4749 Franklin Blvd., 2 story, brick, steel, concrete factory, East 27th St. $40,000. Noted Dec. 31.

O., Eaton—Village, O. H. Swain, village clk., preparing plans municipal light lant. $233,000. Fosdick & Hilmer, Union Trust Bldg., Cincinnati, engrs. Noted Nov. 19.

O., Elyria — City Ice & Fuel Co., 6611 Euclid Ave., Cleveland, cold storage plant. To exceed $40,000.

O., Geneva — City Ice & Fuel Co., 6611 Euclid Ave., Cleveland, cold storage plant. To exceed $40,000.

Okla., Oklahoma City—J. B. Londers, Commerce Exchange Bldg., sketches 4 story, basement, 140 x 200 ft., brick, steel warehouse, plain found., Reno St. $175,000. Architect not appointed.

Pa., Meadville—Crew Levick Co., 807 Main St., 1 story, brick, steel storage building, incl. storage tanks, equipment, Park Ave. $40,000. Private plans.

R. I., Central Falls—Emanuel Gerli, c/o Gerli & Co., 49 East 34th St., New York, acquired former General Fabrics plant, and plans reconditioning same when conditions warrant.

Tex., Hitchcock—J. J. Harpey, Hitchcock, recently acquired cold storage and refrigeration plants at Hitchcock, Alta, Loma, Arcadia and Algoa, also ice manufacturing plant at Hitchcock, surveys, etc., soon for improvements.

Tex., Texarkana—A. C. Warthom, c/o Butternut Bread Co., plans by Witt, Seibert & Halsey, Texarkana, 1 story, 85 x 140 ft., brick, steel bakery, rein.-con. found., 10th St. and State Line.

Va., Rocky Mount—Bald Knob Furniture Co., rebuilding part of plant destroyed by fire. To exceed. $40,000. **Maturity indefinite.**

Ont., Toronto—Radio Condenser Co., Copewood and Thorne Sts., Camden, N. J., building or leasing and equipping plant for radio condenser manufacturing. $40,000.

BIDS ASKED

Ariz., Miami—See "Contracts Awarded."

Ind., Greencastle—See "Contracts Awarded."

La., New Orleans—Apr. 19, by City Council, 1 story, 40 x 190 ft. masonry, stucco, steel market, incl. electric refrigeration equipment, Orleans St. $50,000. Sam Stone, Jr. & Co., Masonic Temple Bldg., archts. Noted Nov. 19, under "Unclassified."

Mass., Weymouth—See "Contracts Awarded."

N. Y., Brooklyn—See "Contracts Awarded."

N. Y., Clinton—Poggi & Bragdon, archts., 275 Morris Ave., Elizabeth, taking bids (selected list of contractors) general contract 1 story, basement, brick, steel garage and salesroom. $40,000. Private plans.

N. Y., New York—See "Contracts Awarded."

Pa., McKeesport—A. Sharove, archt., Berger Bldg., Pittsburgh, taking bids 1 story, 15 x 105 ft., brick, tile washing building, 35 x 35 ft. service station, incl. wrecking 3 story brick lodge building on site, Strawberry Way, 9th and Market Sts., for J. Guttman, 6335 Phillips Ave., Pittsburgh.

W. Va., Cabin Creek — See "Contracts Awarded."

CONTRACTS AWARDED

Ariz., Miami—Miami Copper Co., 3,000 ton copper mill, day labor. $50,000. F. W. Maclennan, genl. mgr.

Calif., Stockton—State Dpt. P. Wks., Sacramento, general contract 1 story, rein.-con. refrigeration plant, kitchen, etc., to Guth & Fox, 1516 27th St., Sacramento, $85,514; electrical work, to Eddy Electric Co., 309 East Weber St., Stockton, $4,035; heating and plumbing, to J. C. Black, 721 West Elm St., $25,900. Grand total $115,449. Noted Feb. 18.

Conn., Meriden—Southern New England Ice Corp., R. G. Hadley, genl. mgr., Corbin Pl., New Britain, 1 story ice manufacturing plant, brick, steel to Bartlett-Brainard Co., 252 Asylum St. Est. $100,000. Noted Mar. 10.

Conn., Middletown—Owner, c/o Towner & Sellew Associates, Inc., archts., 363 Main St., 1 story, 50 x 70 ft., ice cream manufacturing plant, brownstone, brick, Saybrook Rd., to J. H. Mylchreest, 50 Brainerd Ave.

Conn., New Britain—Southern New England Ice Co., R. G. Hadley, gen. mgr., Corbin Pl., 1 story, 60 x 120 ft. ice plant, brick, steel, to Carlson & Torre Co., 805 Main St. Est. $100,000. Noted Dec. 4, 1930.

Conn., West Haven (br. New Haven) — Hygienic Ice Co., 881 State St., New Haven, 1 story, 60 x 90 ft. ice manufacturing plant, brick, steel, to Fusco & Amatruda, 59 Amity Rd., New Haven. Est. $40,000. Noted Mar. 3.

Ind., Ft. Wayne—P. EcKrich, 2506 Bway., general contract 1 story, basement, 150 x 200 ft., brick, rein.-con. factory, to Indiana Eng. & Constr. Co., 201 Central Bldg. Est. $40,000. Noted Mar. 24.

Ind., Greencastle—De Pauw University, will install brick, steel, rein.-con. heating plant, incl. 130 ft. steel smoke stack, new boiler, coal and ash handling equipment, boiler feed pump, by day labor and separate contracts. $40,000. Private plans.

La., Harvey—Favrot & Livaudais, archts., Hibernia Bldg., New Orleans, 3 story, rein.-con., steel factory, pile and rein.-con. found., for Continental Can Co., Pershing Square, New York, to R. P. Farnsworth Co., Inc., Maritime Bldg., New Orleans, $125,000. Noted Feb. 11.

Me., Portland—Cushman Baking Co., 107 Elm St., 2 story, brick, steel garage, plain found., to F. W. Cunningham & Sons, 181 State St. Est. $40,000. Noted Mar. 31.

Mass., Holyoke—V. Charpentier, Lower Westfield Rd., altering and constructing 1 story ice manufacturing plant addition, brick, plain found., Lower Westfield Rd., to W. K. Traquair, 596 South St. Est. $40,000.

Mass., Lawrence—Essem Packing Co., Inc., 101 Beacon St., altering and constructing 2 story sausage factory addition, concrete, concrete found., to L. C. Cyr, 45 Melrose St. Est. $45,000. Noted Mar. 24.

Mass., Peabody—J. Meagher, 19 Gardner St., 1 story, brick, concrete, steel garage and showroom, plain found., 125 Lowell St., to Parker & Walsh, 119 Webb St., Salem. Est. $40,000.

Mich., Saginaw — Genese Coal & Ice Co., Flint, 1 and 2 story, 65 tons daily capacity, brick, steel, rein.-con. ice manufacturing plant, with storage for 2,000 tons of ice, plain found., Phelon St., to Spence Bros., Saginaw. Est. $75,000.

Mass., Weymouth—Crawford Machine Co., 16 Central Ave., South Weymouth, rebuilding 2 story, brick factory, to Clark & Smith, Inc., 1372 Hancock St., Quincy. Est. $50,000. Noted Mar. 17.

N. J., Rahway—Merck & Co., Inc., Lincoln Ave., general contract 1 and 2 story, basement, brick, steel factory addition, Lincoln Ave., to R. E. Lamb Co., 814 North 9th St., Phila., Pa., est. $150,000. Noted Mar. 17.

N. M., Clovis—M. Jacobsen, Amarillo, Tex., and Clovis, 2 story, basement, 60 x 80 ft. creamery plant, to J. Land, Clovis; brick awarded to Burger-McCormack Co., Amarillo, Tex. Total est. $35,000. Machinery purchased.

N. Y., Brooklyn—Acme Backing Corp., altering 2 story plant, Meadow St. and Morgan Ave., day labor. Some equipment purchases completed. Eadie Freund & Campbell, 110 West 40th St., New York, archts.

N. Y., Mariners Harbor—J. Weissglass, 2014 Forrest Ave., Elm Park, general contract 1 story, basement, brick, steel dairy plant, to State Builders, Inc., 845 Broad St., Newark, N. J., est. $40,000. Noted Mar. 10.

N. Y., Middletown—Horton Ice Cream Co., Inc., 205 East 24th St., New York, general contract 1 story, basement, 100 x 100 ft., brick, steel, ice cream plant, Monhagen Ave. to Enos Constr. Co., Inc., 464 5th Ave., Brooklyn, N. Y., est. $40,000. Noted Apr. 7. Taking bids on materials.

N. Y., New York—Consolidated Gas Co., 4 Irving Pl., altering 6 story shop, 120 Amsterdam Ave., day labor. J. F. Hunter, 4 Irving Pl., archt. Noted Mar. 24.

N. Y., New York—National Biscuit Co., 449 West 14th St., 11 story baking plant addition, 500 West 16th St., to Turner Constr. Co., Graybar Bldg. Est. $500,000. Noted Nov. 5.

N. Y., New York—The Six and Eight West 48th Street Corp., 316 East 64th St., altering 12 story storage and loft building, separate contracts. $40,000. H. A. Wittekind, c/o owner, archt. Noted Mar. 24.

N. C., Fayetteville—Coca Cola Bottling Co., 2 story, 60 x 80 ft., concrete, steel, brick, limestone bottling plant, to Reinecke-Dixon Constr. Co., Fayetteville.

Okla., Norman—J. T. Foster, 792 Asp St., 1 story, and part basement, 50 x 140 ft. concrete, brick, semi-fireproof cleaning plant, to E. H. Conrad, Norman. Noted Mar. 31.

S. C. Lancaster—Lancaster Cotton Mills, c/o G. R. Cobb, supt., 1 story, 50 x 120 ft. brick cotton mill addition, plain found. Owner builds. Robert & Co., Bona Allen Bldg., Atlanta, Ga., archts. and engrs.

Utah, Siguard—Jumbo Plaster Mill, structural steel for rebuilding gypsum mill, to Provo Fdry. & Machine Co., Provo. Total est. $250,000. Noted Mar. 17.

Va., Alexandria — Ford Motor Co., 3674 Schafer Rd., Dearborn, Detroit, Mich., 1 and 2 story, 200 x 400 ft., rein.-con., brick, steel motor car manufacturing and assembly plant, plain found., to Worden-Allen Co., 208 South La Salle St., Chicago, Ill. Est. $500,000. Noted Apr. 7.

W. Va., Cabin Creek—Appalachian Electric Power Co., E. A. Turner, in charge, electric power (condenser alterations), day labor. To exceed $40,000.

Wis., Kaukauna—Thelmany Pulp & Paper Co., 1 story, 135 x 200 ft., paper bag factory, brick, rein.-con., to Permanent Constr. Co., 735 North Water St., Milwaukee. Est. $40,000.

Ont., Hamilton — Hamilton Co-Operative Creameries, c/o H. W. West, 21 Main St. E., general contract 2 story, basement, brick, steel, concrete dairy plant, to H. C. Gummo, 503 Aberdeen Ave.; plumbing, to J. Saynor, 245 King William St.; structural steel, to Hamilton Bridge Co., Bay St. N. Est. $45,000.

Ont., Toronto—Punch Dry Ltd., 40 Kelvin Ave., 2 story, basement, 50 x 120 ft., brick, concrete, steel soft drink plant, Hopewell Ave., York Twp., general contract to S. F. Stinson & Son, 422 Hopewell Ave.; excavation, to J. Martello & Co., 16 Strathearn Rd.; masonry, to W. E. Walker, 90 Bowie Ave. Est. $50,000.

See proposal advertising on page 69

CONSTRUCTION NEWS

SECTION OF ENGINEERING NEWS-RECORD—APRIL 21, 1932

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WATERWORKS

PROPOSED WORK

Calif., Newark—C. Williams, Jr., mgr. Alameda County Water Dist. soon takes bids 10,000 gal. steel pressure tank, laid horizontally on concrete piers, installing turbine pump on water well, also pipe and fittings to connect with town distribution system.

Ill., Elgin—V. H. Kasser, city engr., soon takes bids centrifugal deep well pumping units, known as Contr. "D", Lavoie and Schuyler Sts., also certain changes at St. Charles St. Pumping Station, in order to aerate and repump water from Lavoie Ave. Well, incl. piping, valves, meters, appurtenances, 2 well houses, electrical equipment. City purchased pumping equipment. Alvord, Burdick & Howson, 20 North Wacker Dr., Chicago, consult. engrs.

Ill., Springfield—See "Dams."

Ia., Shenandoah—See "Contracts Awarded."

Minn., Minneapolis—City, plans constructing rein.-con. coagulation basin at filtration plant, Fridley Station, $333,000. N. W. Elsberg, city engr. Work probably by day labor.

Neb., Omaha—Metropolitan Utilities Dist., 18th and Harney Sts., 6 additional units to filter plant, to Parsons Constr. Co., 701 North 20th St., $46,494. Piping amounting to $90,000 will be done by district. Noted Apr. 7.

Neb., Schuyler—Soon takes bids exhaust water pipe line, incl. 3,000 ft. 12 in. c.i. and 3,000 ft. clay pipe. Well for exhaust water at municipal light and power plant, to Layne-Western Co., Lincoln, $1,150. Noted Mar. 31.

N. Y., Far Rockaway — J. J. Dietz, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, preliminary plans 1 story, 44 x 120 ft. filtration plant, Rockaway Blvd. and Three Mile Hill Rd. $88,000. Noted Jan. 14.

S. D., Huron—City, M. F. Walt, aud., received no bids Mar. 14, drilling well and furnishing automatic pumping equipment. Project abandoned. Noted Feb. 25.

Va., Madison Heights—Bd. Supervs. Amherst County, Amherst, plans waterworks system for Sanitary District of Madison Heights. E. E. Barnard, Lynchburg, consult. engr. $62,000 bonds to be voted on May 17. This corrects report in Apr. 7 issue.

Wash., Burlington—Water supply, incl. 3 mi. c.i. pipe. $40,000. J. W. Meehan, Mount Vernon, engr. Noted Jan. 21.

Ont., Huntsville—Pub. Utilities Comn., constructing deep wells as new source water supply, involving well drilling, electric pumps, c.i. mains, etc. $20,000. G. Ralston, Huntsville, engr.

BIDS ASKED

Calif., San Francisco—Apr. 27, by S. J. Hester, secy. Dpt. P. Wks., City Hall, constructing Crystal Springs Aqueduct Supply Line in connection with Hetch Hetchy Project, incl. furnishing, installing 1,000 lin.ft. ¾ in. and 50 lin.ft. 7/16 in. plate, welded steel pipe, 12 lin.ft. 7/16 in. plate 54 in. steel pipe, miscellaneous fittings, also 2,500 cu.yd. excav. trench, backfill, fences, repaving, 460 lin.ft. 54 in. pipe furnished by city.

Colo., Denver—May 11, by Bd. Water Comrs., electrically-driven pumping equipment for proposed new reservoir at University Park, incl. 4 centrifugal pumps rating 5, 10, 15 and 20 m.g.d., 4 synchronous motors, rating 200, 400, 600 and 800 hp., also controls suitable for operation of motors.

Md., Baltimore — Apr. 27, by Bd. Awards, furnishing, erecting pumping equipment for Towson Automatic Pumping Station. L. Small, Municipal Bldg., water engr.

Minn., Ely—May 3, by City, A. O. Knutson, clk., constructing, equipping one 1½ m.g. rein.-con. covered reservoir.

Mo., St. Louis—See "Contracts Awarded."

N. Y., New York—Dpt. Water Supply, Gas & Electricity, Municipal Bldg., bids about Sept. 15, general contract pumping station, Amsterdam Ave. and 179th St. $250,000. Noted Apr. 14.

N. Y., West Haverstraw—May 10, by Dpt. Health, State Office Bldg., Albany, new well for Reconstruction Home. $4,000.

O., Cleveland—Apr. 29, by City, furnishing, erecting 2 m.g. steel plate water storage tank for city of Garfield Heights and 1 m.g. steel plate water storage tank for city of Euclid, both suburbs of Cleveland. Noted Apr. 7.

Wis., Menomonee Falls—Apr. 25, by Village, pumping station, furnishing one 500 g.p.m. with electric motor driven automatic control pump; also one 500 g.p.m. motor driven centrifugal booster pump, mercury type water level pressure regulator, etc., $25,000. Former bids rejected. P. L. Clark, Appleton, engr.

CONTRACTS AWARDED

Calif., Los Angeles—See "Dams."

Conn., Danbury—City, Contr. 1, 900 ft. 36 in. diversion line with small diversion dam, Contr. 2, dam and dike for Marjory Basin Reservoir, to Luke Sweeney, 15 Bates Pl., $112,910. Filter beds, etc., planned, indefinite when bids will be asked.

Ind., Knightstown—Bd. Comrs. Indiana Soldiers and Sailors Childrens Home, watermain extensions, fire protection service, to H. F. Hobbick & Co., Winchester, $12,610. Est. $17,500.

Ia., Shenandoah—City Council, 70 ft. deep artesian well, to Thorpe Bros., 2340 6th St., Des Moines, $3,760, will purchase 300 g.p.m. turbine pump and 150 hp. Diesel engine and generating equipment.

Kan., Wichita—C. C. Ellis, city clk., water supply for sewage disposal plant, incl. well, to City Engine & Pump Co., 133 West S. Francis St., $665; elevated tank on 75 ft. steel tower, to Chicago Bridge & Iron Co., 37 West Van Buren St., Chicago, Ill., $2,875. Will take new bids on pumps, pump house, 900 ft. 6 in. c.i. pipe. P. L. Brockway, city engr. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., consult. engrs. Noted Mar. 24.

Mo., St. Louis—City Water Dpt., extending improving water distribution system, incl. 8- to 12-in. mains, own forces. $150,000.

Neb., Schuyler—See "Proposed Work."

N. Y., Somers—Amawalk Shamrock Water Dist., Yorktown Heights, water distribution system and well, to J. Donunduz, Yorktown Heights, $50,000 and $3,500 respectviely; tank, to Chicago Bridge & Iron Wks., 37 West Van Buren St., Chicago, Ill., $12,000. Grand total $65,500. Donunduz will award contracts for valves, hydrants, etc.

Pa., Pittsburgh—See "Streets and Roads."

Pa., Tamaqua—Panther Valley Water Co., subsidiary Lehigh Coal & Navigation Co., 1421 Chestnut St., Phila., Still Creek Dam, 50 ft. high, storage 250,000,000 gal. on tributary of Schuylkill River, near here, also 5 mi. 36 in. pipe line, to Gannett, Seelye & Fleming Engineers, Inc., 600 North 2nd St., Harrisburg, and 50 Bway., New York. Est. exceeds $500,000.

Va., Bedford—C. Ballard, city mgr., auxiliary concrete reservoir, to Ballard & Stoner Contractors, Bedford, $10,600.

Va., Lynchburg—Municipality, 500,000 gal. steel water tank, to Pittsburgh-Des Moines Steel Co., Neville Island, Pittsburgh, Pa.

Wis., Milwaukee—City, D. McKeith, comr., installing suction and discharge piping for Pump 6 at Riverside Pumping Station, to Wenzel & Henoch Co., 1524 North 27th St., $16,329.

Wis., Racine—Bd. Water Comrs., substation, incl. equipment, to General Electric Co., 230 South Clark St., Chicago, Ill., $34,000. Noted Apr. 7.

Alta., Calgary—Furnishnig, delivering, erecting valves and equipment for flood control, to John Inglis & Co. Ltd., 14 Strachan St., Toronto, Ont., $27,720. Noted Jan. 14.

Ont., Westboro—Installing 2,300 ft. 6 in. watermains and 2,200 ft. 9 in. sewers and appurtenances, to Ryan Constr. Co. Ltd., 1319 Bloor St., Toronto; excavation, to P. J. Moloughney, Ottawa, $9,200. Noted Mar. 17.

SEWERS

PROPOSED WORK

Ill., Joliet — Plans in progress West Side Sewerage System. $700,000. A. S. Calkins, city engr.

Ill., South Chicago Heights (sta. Chicago)—City sewage disposal plant, incl. pump house, sludge bed, 4 filter beds, rein.-con. tanks. A. Fox, 1711 Halstead St., Chicago Heights, engr.

Mich., Jackson—Sewage disposal plant. $600,000. G. B. Gascoigne, Leader Bldg., Cleveland, O., engr., preparing report. Noted Oct. 22.

Mo., St. Louis—Bd. P. Serv., City Hall, soon takes bids 6,725 ft. 8- to 21-in. vitr. clay, 605 ft. either 27 in. vitr. clay or 30 in. brick or segmental block vitr. tile, 315 ft. 30 in. vitr. clay or 33 in. brick or segmental block, 640 ft. 33 in. vitr. clay or 36 in. brick segmental tile sewers in Maline Creek Sewer Dist. 2, bounded by McLaren and Goodfellow Aves., Keifer and Howel Sts., $28,230, preliminary plans 8- to 12-in. vitr. clay sewers in Harlem Creek Sewer Dist. 29, bounded by Arlington and Brown Aves. and St. Louis Terminal R.R., $3,900. W. W. Horner, 300 City Hall, engr. Noted Feb. 2.

N. J., Boonton—Bd. Sewerage, 714 Main St., completing sewerage system, laying 4,300 ft. sewer pipe, 5,000 ft. house connections, to R. Sowerbutt, Haledon, $46,617. Noted Mar. 17.

O., Cleveland—Completing plans sewage treatment plant extension, detritor tanks, grease catchers, waste destroyer building, radial brick chimney, West 58th St. $200,000. G. B. Gascoigne, Leader Bldg., engr. Noted Jan. 28.

O., Lebanon—Preliminary plans completed sewage disposal plant. $35,000. Barstow & McCurdy, 530 Industrial Bldg., Cincinnati, engrs. Noted Nov. 19.

Ont., Toronto—City, 2 sludge drying beds at North Toronto Sewage Disposal Plant, involving concrete, etc. $32,000. R. C. Harris, City Hall, engr. Noted Jan. 21.

BIDS ASKED

Conn., Greenwich—May 3, by City, sewage disposal plant, Old Greenwich, $65,000. Metcalf & Eddy, Statler Bldg., Boston, Mass., engrs.

Mass., Boston—Apr. 27, by Dpt. P. Wks., J. A. Rourke, comr., sewerage works in Yorktown and Guernsey Sts., West Roxbury, $25,000; Apr. 28 in Brighton, and Apr. 29 in West Roxbury, $25,000 or more; Apr. 29, in West Roxbury and Dorchester, $25,000; May 2 in Alica Rd. and Richview St., etc., Dorchester, $25,000.

N. Y., New Paltz—May 10, by Dpt. Educ., State Office Bldg., Albany, sewers and water lines, at Practice School.

N. Y., New York—Apr. 27, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in Gun Hill Rd., Delancey Pl., O'Brien, Bolton, Sound View, Randall, Patterson, Beach, Tieman, Mulford and Muliner Aves.

N. Y., Scarsdale—May 10, at office Village Engineer, Village Hall, Post Rd., near Popham Rd., trunk and lateral sewers in Sewer Dist. 2. E. H. Jackson, village clk.; adv. E. N.-R. Apr. 21. Noted Mar. 3.

N. Y., West Haverstraw—Apr. 29, by Dpt. Health, T. Parran, Jr., comr., State Office Bldg., Albany, sewers and water lines at New York State Reconstruction Home, $92,138; adv. E. N.-R. Apr. 21.

O., Cleveland—Apr. 27, by City, sewers in Union Ave. from East 116th to East 131st St., Westchester Ave. from East 98th St. to East 105th St. and West 42nd St. and Gifford Ave., to West 49th St. $150,000. R. Hoffmann, city engr.

Pa., Johnstown—Apr. 27, G. W. Griffith, dir. Streets and Public Impvts., City Hall, straight 6- to 24-in. terra cotta pipe, terra cotta Ys, Ls and stoppers, various sizes, jute, common brick, manhole steps, manhole covers, stone, gravel, slag, sand, cement for sanitary sewers. H. L. Wilson, Johnstown, engr. Noted Apr. 14.

Tex., Dallas—May 4, by City, c/o J. N. Edy, mgr., constructing Mile Creek Storm Sewer, $525,000. O. H. Koch, Dallas, dir. P. Wks. W. W. Horner, St. Louis, Mo., consult. engr.

Wash., Spokane—Apr. 28, by City Council, LeRoy Lambert, comr. P. Wks., sewer in Garland Ave. (south side only).

Que., Hull—See "Contracts Awarded." . . . .

CONTRACTS AWARDED

Calif., Capistrano Beach—Capistrano Beach Sanitary Dist., sewage treatment plant, to E. Green, 2844 Newland St., Los Angeles, $9,685; ocean outfall, to Merritt-Chapman & Scott, 720 Wilmington Blvd., San Pedro, $7,000. Noted Mar. 3.

Calif., Los Angeles—Los Angeles Bd. P. Wks., Sect. 34-C North Outfall Sewer, Burbank Blvd., Kestner Ave., to Oxnard St. and Hayvenhurst Ave., incl. 260 lin.ft. 18 in. pipe, 2100-D loading pipe, 2,974.66 lin.ft. 18 in. pipe, 1900-D loading pipe, 2,641.17 lin.ft. 21 in. pipe, 1900-D loading pipe, 6,250.19 lin.ft. 24 in. pipe, 2000-D loading pipe, 1,350 lin.ft. 24 in. pipe, 2200-D loading pipe, 27 manholes, 5 junction chambers, to Martin Constr. Co., 721½ South Ford Blvd., $44,390. Noted Mar. 10.

See proposal advertising on page 51

LEADITE

Trade Mark Registered U.S. Pat. Office

Pouring a LEADITE Joint on a 24″ diameter bell and spigot water line

Scenes like this are (and have been for more than a Quarter Century) a "familiar sight" to Engineers, Water Works Men and Contractors throughout the country,—on all sizes of bell and spigot water mains.

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PHILADELPHIA, PA.

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Sewers (Continued)

Calif., Los Angeles—Bd. P. Wks., City Hall, 26,306.77 ft. sewers in Venice Blvd. and Lincoln Blvd., Sewer Dist., incl. concrete sewers and house connections, manholes, junction chambers, flushing structures, manhole frames, chimney pipe, to Culjak & Zelko, 1358 South Bonnie Beach Pl., $97,699. Noted Mar. 24.

Mo., St. Louis—See "Materials."

Pa., Pittsburgh—See "Streets and Roads."

Wis., Verona—Village, horizontal pump for sewage disposal plant, to Allis Chalmers Co., West Allis, Milwaukee, $2,011; hoist, to H. Morris Co., Inc., 1 Lawrence Pl., Buffalo, $80; power wiring, to Schaub-Bradford Electric Co., Madison, $253; sewage disposal clarifier, to Chain Belt Co., 736 Park St., Milwaukee, $1,290; sewage pumps, to Fairbanks Morse Co., 900 South Wabash Ave., Chicago, Ill., $881. Grand total $4,515. Noted Mar. 17.

Que., Hull—City, installing sewers in Aylmer Rd.—Branchville St., Henry St., day labor. $38,700. T. Lanctot, City Hall, engr.

BRIDGES

PROPOSED WORK

Calif., Glendale—City Council widening present 84 ft. bridge from 28 ft. to 58 ft., over Verdugo Wash at Canada Blvd., incl. two 6 ft. sidewalks. $40,000, of which $15,000 was allocated by county. J. C. Albers, City Hall, engr.

Ill., Springfield—City Council, W. J. Spaulding, comr., 1,400 ft. span rein.-con. bridge with cut stone trimmings. $200,000. Burns & McDonnell Eng. Co., Inter-State Bldg., Kansas City, Mo., consult. engrs.

O., Cleveland—State, O. W. Merrell, hy dir., Columbus, steel, concrete, rein.-con. bridge, Wards Crossing on Northfield Rd., N. Y. $400,000; steel I-beam, concrete enclosed bridge over Erie R.R. tracks on South Miles Rd., $250,000, both in Cuyahoga Co. J. O. McWilliams, Western Reserve Bldg., Cleveland, div. engr.

Texas—State Hy. Comn., W. R. Ely, chn., Austin, soon takes bids 3 concrete, steel I-beam span bridges over Kiowa, Darrozett and Ivanhoe Creeks, Hy. 117, State Project 797-D, Lipscomb Co., $75,000. G. C. Wickline, Austin, bridge engr.

Tex., Boca Chica—Boca Chica Bridge Co., rein.-con., steel pedestrian and vehicle toll bridge over Rio Grande River. $100,000. Private plans. Awaiting authority from Congress to proceed with construction.

Ont., Toronto—Preparing plans 3 span, plate girder and through truss concrete bridge over Canadian Natl. Hy., at Patricia Dr. $198,140. R. C. Harris, City Hall, engr.

Ont., Toronto—City, 4 deck plate girder span high level bridge, 300 ft. long, 66 ft. wide, on concrete piers, abutments, Strathgowan Ave. $240,000. R. C. Harris, City Hall, engr. Noted Mar. 24.

BIDS ASKED

California—May 4, by C. H. Purcell, engr. State Hy. Comn., Sacramento, 3 bridges at points between 4 and 8 mi. south of Gorman Station, Los Angeles Co.

Calif., Keddie—Apr. 29, by F. W. Haselwood, engr. Dist. 11, Redding, 40 ft. span rein.-con. girder bridge on concrete abutments over Western Pacific Railroad Tunnel, near here, Plumas Co.

Illinois—Apr. 27, by State Dpt. P. Wks. & Bulidings, Div. Hys., Springfield, 72 ft. span steel superstructure and paved approaches, incl. 86,800 lb. structural steel, Route 100, Sect. 116-C, Scott Co. F. T. Sheets, ch. hy. engr.

Ill., Decatur—Apr. 25, by Bd. Supervs. Macon Co., P. T. Oetzel, supt., 65 ft. span rein.-con. deck girder bridge, Sect. 551B-M.F.T., 4 rein.-con. box culverts, 3 rein.-con. culvert extensions, Sect. 451B-M.F.T.

Indiana—Apr. 26, by State Hy. Comn., Indianapolis **(r. c. means reinforced concrete)**, 24 x 24 ft. r.c. arch bridge, over Mill Creek—24 x 24 ft. r.c. arch bridge and 24 x 24 ft. r.c. girder bridge over Kingsbury Creek, Contr. 484—40 x 24 ft. r.c. girder bridge over Travis Ditch—96 x 24 ft. steel truss bridge over Kankakee River, Contr. 485, all Laporte Co.—40 ft. r.c. under-fill, Anderson Ditch, Contr. 486 Marshall Co.—16 x 28 ft. r.c. slab over Anderson Ditch—12 x 28 ft. r.c. slab bridge over Agnew Ditch—16 ft. under-fill, Cox Ditch, Contr. 487 Winamac Co.—36 x 32 ft. r.c. girder bridge over Walnut Creek, Contr. 488 Kosciusko Co.—one 80 ft., two 24 ft. span r.c. arch bridge, 24 ft. roadway over Rock Creek—32 x 24 ft. r.c. girder bridge over Robinson Creek, Contr. 490 Carroll Co.—one 72 x 24 ft. one 60 x 24 ft. steel truss bridges over Stony Creek, Contr. 491 Hamilton Co.—96 x 24 ft. steel truss bridge over Bean Blossom Creek—30 x 24 ft. r.c. arch bridge over Hoppers Creek, Contr. 492 Brown Co.—two 55 ft. span r.c. arch bridge, 24 ft. roadway over Williams Creek, Contr. 493 Fayette Co.—24 x 24 ft. r.c. girder bridge over Western Creek—30 ft. r.c. arch fill, Little Pipe Creek, Contr. 491, both Ripley Co.—84 x 24 ft. steel truss bridge over Busseron Creek—60 x 24 ft. steel truss bridge over Drainage Ditch, Contr. 495 Sullivan Co.—32 x 24 ft. r.c. girder bridge over Miller Ditch—40 x 24 ft. r.c. girder bridge over Purdy Marsh, Contr. 496—72 x 24 ft. steel truss bridge over Pollard Ditch, Contr. 497—60 x 24 ft. r.c arch bridge over Singer Ditch—40 x 24 ft. r.c. girder bridge over Gardner Ditch, Contr. 498, all Knox Co.—50 x 20 ft. r.c. arch bridge over Little Indian Creek—50 x 24 ft. r.c. arch bridge over Big Indian Creek, Contr. 499 Floyd Co.—32 x 28 ft. r.c. girder bridge over Solunge Creek, Contr. 500, Blackhawk Co. J. J. Brown, dir.

Iowa—Apr. 26, by State Hy. Comn., Ames, raising, widening 30 x 18 ft. deck girder and 30 x 18 ft. I-beam bridge, constructing 26 culverts, extensions, Rd. 169, F.A.B. 350 Boone Co.—4 culverts, extensions, Rd. 169, F.A.B. 272 Webster Co.—50 x 24 ft. I-beam, 60 x 24 ft. I-beam with two 50 x 24 ft. I-beam approach spans, 36 x 24 ft. I-beam, one 210 ft. multiple span I-beam bridge, 52 culverts, extensions, Rd. 137, F.A.B. 344 Lucas and Wayne Counties—16 culverts, extensions, Rd. 168, P. 794 Shelby and Pottawattamie Counties. C. R. Jones, aud.

Kansas—Apr. 29, by State Hy. Comn., Court House, Parsons, Bridge 1, incl. four 14 x 14 x 30 ft. multiple box spans, Bridge 2, incl. three 7 x 7 x 30 ft. multiple box spans, U. S. Hy. 73, Federal Aid Project 2-A, Labette Co.—Bridge 1, incl. fifteen 30 ft. deck girder spans, 24 ft. roadway, K.160, Federal Aid Project 199-G, Montgomery Co. W. V Buck, Topeka, hy. engr.

Maine—Apr. 26, by State Hy. Comn., Augusta, Greenleaf Brook Bridge 2, Amity—Muduskeag Bridge, Hodgdon—Marsh Bridge, Newcastle—Skagrock Bridge, Orient—Young Brook Bridge, Westfield—covered bridge Presque Isle.

Maryland—Apr. 26, by State Roads Comn., G. C. Uhl, chn., Baltimore, structural steel superstructure for bridge over Little Elk Creek, Contr. Ce-83-1-22, Cecil Co.; sidewalk extension for existing arch bridge over Great Tonoloway Creek, Contr. W-109-611, Washington Co.; adv. E. N.-R. Apr., 21.

Michigan—Apr. 27, by W. J. Kingscott, div. engr., Grand Rapids, MBr. 1 of 8-14-11, Contrs. 2 and 3, two 75 ft. spans, 2 rein.-con. counterfort type abutments, steel deck girder, rein.-con. flooring, concrete wearing surface, two 2½ ft. sidewalks, Barry and Kent Counties, for State Hy. Comn., Lansing.

Mich., Manistee—May 11, at office Chief Engineer State Hy. Dpt., Lansing, Trunk Line Bridge 1 of 51-6-1, Contr. 3, Manistee Twp., Manistee Co. G. C. Dillman, state hy. comr.; adv. E. N.-R. Apr. 21.

Ohio—May 6, by O. W. Merrell, dir. hys., Columbus, steel I-beam bridge to have 58 ft. center and two 46 ft. end spans, 24 ft. roadway, Sect. "L" Ohio River Rd., Gallia Co., $20,922—22 ft. span, concrete slab bridge, Sect. "J" Chagrin Falls-Greenville Rd., Geauga Co., $4,414—32 ft. span concrete beam bridge, Sect. "D" Fostoria-Millburg Rd., Wood Co., $11,129.

Oregon—Apr. 28, by State Hy. Comn., Portland, 3 bridges on Durkee-Gales Sect., Old Oregon Trail, Baker Co.—bridge over Paradise Creek on Umpqua Hy., 8 mi. west of Elkton, Douglas Co.—bridge over railroad tracks on North Portland Rd., Secondary State Hy. 120, near Portland, Multnomah Co.—widening present concrete bridge over railway track on Columbia River Hy. at Dillon, Wasco Co. R. H. Baldock, state hy. engr.

Pa., Pittsburgh—Apr. 27, by R. G. Woodside, controller Allegheny Co., City-County Bldg., hand-railing and lamp poles for South 10th Street Bridge $30,000, also electrical work for same, $12,000; handrailing, lamp and trolley poles, concrete stairs, sidewalks for West End-North Side Bridge $95,000. V. R. Covell, City-County Bldg., engr.

Texas—Apr. 23, by G. Gilchrist, state hy. engr., Austin, 7 span, steel, concrete bridge to have open caisson type piers, precast concrete piling, bents and abutments, six 30 ft. 6 in. concrete deck girder spans and one 120 ft. steel truss span, 22 ft. roadway over Blanco River, Hy. 3, Federal Aid Project 289 reopened, Uvalde Co., $40,000; 36 span steel, concrete bridge to have thirty-one 30 ft. 6 in. concrete deck girder spans, 22 ft. roadway, two 502 ft. steel I-beam spans, two 150 ft. steel truss spans, 31 concrete pile bents, 4 open caisson type piers over Guadalupe River, Hy. 9, Federal Aid Project 631-B, Kendall Co., $120,000. Noted Mar. 31.

Washington—May 3, by Comrs. Cowlitz (Kelso) and Clark (Vancouver) Counties, at Kelso, 240 ft. steel suspension bridge over Lewis River. $40,000. F. C. Kramer, Kelso, co. engr. Noted June 18.

Washington—May 10, by S. J. Humes, dir. hys. Olympia, 858 ft. bridge over Stillaguamish River on State Rd. 1 between Island School and East Stanwood, in Snohomish Co.

West Virginia — Apr. 26, by State Roads Comn., Charleston **(P. means Project and F.A.P. Federal Aid Project)**, Middleway Bridge 1308, 100 ft. pony truss span steel superstructure with two 50 ft. I-beam steel spans, concrete substructure, P.3526 and 27, Berkeley and Jefferson Counties—Yellow Springs Bridge 1294, two 140 ft. through truss spans, concrete substructure, P.3489 Hampshire Co.—Lost City Bridge 1303, 110 ft. pony truss span steel superstructure, P.3471-B Hardy Co.—Wardensville Bridge 1293, two 50 ft. I-beam approach spans, 90 ft. pony truss span, concrete substructure, P. 3490 Hardy Co.—Shawnee Bridge 1291, 110 ft. span steel pony truss superstructure, concrete substructure, P. 3484 Mercer Co.—Reeces Mills Bridge 1298, 90 ft. pony truss steel superstructure, two 40 ft. I-beam approach spans, concrete substructure, P. 3492-B Mineral Co. — Cheat River Bridge 1297, 150 ft. span steel superstructure, F.A.P. 151-F Preston Co.—Kelley Mountain Bridge 1283, two 40 ft. I-beam approach spans, 140 ft. through truss span steel superstructure, P. 3443 Randolph Co.—Main Street Bridge 1289, four 40 ft. and one 50 ft. span concrete deck girder, F.A.P.192-A Roane Co. G. E. White, secy.

Wis., Cheppewa Falls—Apr. 26, by State Hy. Comn., Madison, structural steel for 1,800 ft. concrete, steel bridge over Chippewa River. Total $400,000.

CONTRACTS AWARDED

California—C. H. Purcell, engr. State Hy. Comn., Sacramento, one 30 ft., one 21 ft. span rein.-con. girder bridge on concrete bents and abutments with wing walls, 76 ft. clear roadway width, two 12 ft. sidewalks over Stevens Creek, 2 mi. north of Mountain View, Santa Clara Co., to Neves & Harp, 891 Harrison St., Santa Clara, $18,461. Noted Mar. 25.

Florida—State Road Dpt., Tallahassee, bridges, culverts, Rd. 25, Project 805, Hendry Co., to C. C. Moore Constr. Co., De Funiak Springs, and J. D. F. Boggs, Sarasota, $21,643 and $20,002 respectively—concrete deck girder spans on concrete piers, Project 977-B, Rd. 32, Hardee Co., to P. Gilmore, Spartanburg, S. C., $17,244. Grand total $58,889. Noted Mar. 31.

Indiana—State Hy. Comn., Indianapolis, 2 span 150 ft. steel truss bridge over Clifty Creek, Contr. 471, Bartholomew Co., to H. Tharp, Fountain City, $37,936, est. $53,951—2 span 80 ft. rein.-con. bridge Sect. 36E-1101 Contr. 477, Putnam Co., to Clark & DuVall, Flora, $26,192, est. $41,720—one 40 ft., and one 28 ft. rein.-con. girder bridges, Contr. 472, Pulaski Co., to Haines & Haines, Dowagiac, Mich., $10,775 est. $15,707. Grand total $77,003. Noted Mar. 10.

Iowa—State Hy. Comn., Ames, 40 x 24 ft. I-beam bridge, 120 x 20 ft. high truss bridge with two 40 x 20 ft. I-beam approach spans, 14 culverts, extensions, Rd. 186, Adams Co. and three 36 x 24 ft. span I-beam bridge, 80 x 20 ft. pony truss with two 32 x 20 ft. I-beam approach spans, 25 culverts, extensions, Rd. 100, Cass Co., to Wickham Bridge & Pipe Co., 1905 West Bway., Council Bluffs, $28,580 and $30,740 respectively. Noted Apr. 7.

Ia., Des Moines—See "Streets and Roads."

Md., Baltimore—Bd. Awards, concrete bridges, Kidds School and Mt. Carmel Rds. and Frog Hollow Bridge and Millers Run culvert, to Harry T. Campbell & Sons Co., Towson, $40,317. Noted Mar. 31.

Minn., Beaudette—W. W. O'Connor (owner and contractor), 630 Hamm Bldg., St. Paul, 1,250 ft. concrete, steel toll bridge across Rainey River to Rainey, Ont., for Lake of the Woods International Bridge Co., operators, c/o contractor. $350,000. Bill passed by Congress and signed by president. Noted Dec. 31.

Missouri—See "Railways."

Neb., Aloa—State Hy. Dpt. and Hall Co., Grand Island, 2 bridges over Platte River, near here, and incidental work on North Alda State Aid Project, to Diamond Eng. Co., 913 East 4th St., Grand Island, $30,068. Noted Mar. 24.

New York—Dpt. P. Wks., F. S. Greene, supt., Albany, furnishing, erecting 8,600 tons steel superstructure Troy-Menands Bridge, Rennsselaer and Albany Counties, to Phoenix Bridge Co., Phoenixville, Pa., $967,181; approaches and miscellaneous structures to above bridges to Fitzgerald Bros. Constr. Co., Inc., 403 Proctor Bldg., Troy, $220,500. Noted Mar. 10.

N. Y., Long Beach—Nassau Co., Mineola, repairing Lohg Beach Bridge, to Andrew Weston, Inc., Mineola, $45,274. Est. $46,213. Noted Mar. 31.

Pa., New Castle—State Hy. Dpt., Harrisburg, steel, rein.-con. bridge over Mahoning River, North Beaver Twp., Lawrence Co., to Highway Constr. Co., Builders Exchange Bldg., Cleveland, O. $121,962. Noted Feb. 18, under "Streets and Roads."

Pa., Pittsburgh—R. G. Woodside, city controller, City-County Bldg., reconstructing Stanley Park Bridge over Panther Hollow, incl. concrete and steel work, 5,000 lb. structural steel delivered, rivets, continuous welds, gray iron castings, steel castings, wrought iron pipe, lumber, granite slag, concrete paving, sidewalks, terra cotta pipe, asphaltic concrete, to Fort Pitt Bridge Co., Oliver Bldg., $49,239—grading, curbing, guttering, sidewalks, brick, concrete paving Lexington St., from Upland to Lyric Sts., to McDonough & Toole, 514 Climax St., $4,563—also 1,836 lin.ft. 6- to 12-in. terra cotta sewers, 110 sq.yd. concrete sidewalks on McMonagel Ave., to Bucci Constr. Co., 375 Boquet St., $2,369. Grand total $56,171. Noted Mar. 31.

Texas—G. Gilchrist, state hy. engr., Austin, 4 span, 253 ft. rein.-con. deck girder bridge, 4 multiple box culverts, Hy. 4, State Project 854, King Co., to Womack-Henning Constr. Co., Sherman, $15,339. Est. $25,000. Noted Mar. 31.

Vermont—State Hy. Dpt., Montpelier, two T-beam bridges, gravel approaches, Eden Mills, to C. D. Marsh Constr. Co., Woodsville, N. H., $12,759—3 span concrete T-beam bridge, gravel approaches, Chester, to J. L. Harbour, Inc., Bennington, $10,999—15 ft. slab bridge, one 10 ft. x 8 ft. box culvert and 3 span concrete bridge, Randolph, to A. J. Savin Co., 1197 Main St., Hartford, Conn., $13,698. Grand total $37,456. Noted Mar. 31.

STREETS AND ROADS

BIDS ASKED

California—May 4, by C. H. Purcell, engr. State Hy. Comn., Sacramento, grading 4.2 mi. road between Pulga and Cresta, Butte Co.—clearing, grubbing 5.1 mi. right-of-way between Inspiration Point and Vine Hill, Santa Cruz

Streets and Roads (Continued)

Co.—asphaltic road oil as dust palliative (7,000 bbl.) on 30.7 mi. road between Weldon and point near Freeman, Kern Co.—fuel oil treating 18.8 mi. road between foot of Conway Grade and point 2 mi. west of Bridgeport, Mono Co.—grading, concrete surfacing 0.8 mi. at Rio Vista, Solano Co.—grading, crushed gravel or stone surfacing 0.6 mi. road between Sonora and point 0.75 mi. east, Tuolumne Co.

Conn., Willimantic — Apr. 25, by Common Council, City Hall, guttering, curbing, constructing sidewalks as required during year. $25,000.

Ill., Eureka—Apr. 25, by Bd. Supervs. Woodford Co., Court House, traffic bound surface course gravel surfacing 5.0331 mi. Sect. 8-M.F.T.—5.8258 mi. Sect. 9-M.F.T.—2.7841 mi. Sect. 10-M.F.T., all 9 ft. wide.

Ill., Jerseyville—Apr. 25, by Bd. Supervs. Jersey Co., Court House, traffic bound surface course surfacing 0.5 mi. Sect. 2-M.F.T.; 1.5208 mi. Sect. 5-M.F.T., both 18 ft. G. H. Baker, c/o State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, engr. county roads.

Ill., Tuscola—Apr. 28, by Bd. Supervs. Douglas Co., L. O. Hackett, supt., Court House, concrete paving 2,174 mi. Sect. C-15d, 9 ft.; and 3.2048 mi. same road, 9 and 18 ft.

Ind., Laporte—Apr. 26, by Bd. Comrs. Laporte Co., concrete surfacing H. C. Crosby Rd. $56,178. R. W. Leets, Laporte, aud.

Iowa—Apr. 26, by State Hy. Comn., Ames, **(F.A.P. means Federal Aid Project)**, grading, drainage structures, paving 12.328 mi. U. S. Hy. 169, F.A.P. 350 Boone Co.—4.127 mi. U. S. Hy. 169, F.A.P. 272 Webster Co. — grading, drainage structures 12.448 mi. U. S. Hy. 137, F.A.P. 344 Lucas and Wayne Counties—2.661 mi. U. S. Hy. 168, F.A.P. 794 Pottawattamie and Shelby Counties—0.251 mi. U. S. Hy. 17, F.A.P. 109 Palo Alto Co—second course gravel surfacing 21.7 mi. Primary Rd. 12, F.A.P. 210—10.4 mi. Primary Rd. 5, F.A.P. 39, both Plymouth Co.—450 tons rip rap in place at Skunk River Bridge, Rd. 77, F.A.P. 574, Keokuk Co.—1,050 tons rip rap in place at Sugar Creek Bridge—45 tons at Ft. Madison Bridge, both on Rd. 103, F.A.P. 743 Lee Co.

Ia., Sedar Rapids—Apr. 28, at office Auditor Linn Co., crushed stone, surfacing 11,655 cu.yd. local road, 18.27 mi. trunk and local road—furnishing 700 cu.yd. rubble at quarry.

Ia., Forest City—Apr. 25, at office Auditor Winnebago Co., grading 8,846 mi. trunk road south from Thompson, incl. 68,078 cu.yd. earth, 1,000 cu.yd. loose rock excav., 209,282 sta.yd. overhaul, 1,572 lin.ft. culvert pipe installed, 146 lin.ft. culvert pipe removed.

Ia., Guthrie Center—Apr. 25, at office Auditor Guthrie Co., grading 45,000 cu.yd. local roads.

Ia., Marengo—Apr. 29, at office Auditor Iowa Co., grading 8 mi. trunk and 2 mi. local roads.

Ia., Marshalltown—Apr. 26, at office Auditor Marshall Co., grading 9.23 mi. trunk and local roads—constructing 5 box culverts, extensions—furnishing culvert pipe, treated and untreated lumber—reinforcing and structural steel.

Ia., Mason City—Apr. 26, at office Auditor Cerro Gordo Co., grading 28 mi. local road, incl. 246,925 cu.yd. casting excav., 35,059 cu.yd. haul excav.

Ia., Spirit Lake—Apr. 25, at office Auditor Dickinson Co., grading 14 mi. road, incl. 90,000 cu.yd. side cast excav., 28,000 cu.yd. end haul, miscellaneous items.

Kansas—Apr. 29, by State Hy. Comn., Parsons, **(K means Kansas Project and F.A.P. Federal Aid Project)**, grading, drainage structures, culverts 1.852 mi. U. S. Hy. 73, F.A.P. 2-A Labette Co.—0.772 mi. K. 160, F.A.P. 199-G Montgomery Co.—mineral aggregate surfacing 1.044 mi. K. 6, F.A.P. 328-E Anderson Co.—4 in. macadam widening 15.75 mi. U. S. Hy. 166, K. 7532—concrete surfacing 0.515 mi. K. 160, F.A.P. 214-A, both Labette Co. W. V. Buck, Topeka, hy. engr.

Kan., Kansas City—May 2, by W. Beggs, clk. Wyandotte Co., concrete surfacing 0.256 mi. Carlisle Rd. (42nd Street Rd.), 13 ft.—0.348 mi. 38th Street, Rd., 18 ft. with 10 ft. shoulders—asphalt or asphaltic concrete (cold mix) 0.993 mi. C. H. N. Moore Rd., U. S. Hy. 40, 16 ft. with 4 ft. shoulders. O. K. Williams, Court House, engr.

Kan., Topeka—City Council, bids about Apr. 21, grading, curbing, guttering, concrete paving East 3rd St. from Chandler to Lawrence Sts.; grading, concrete paving 6 alleys. W. E. Baldry, City Hall, engr.

Maryland—Apr. 26, by State Roads Comn., Baltimore, G. C. Uhl, chn., concrete paving 1.6 mi. Contr. Co-75-22 Carroll Co. — 2.18 mi. Contr. F-188-52, Frederick Co.—3.28 mi. Contr. G-66-64, Garrett Co.—concrete shoulders and concrete roadway 8.38 mi. Contr. M-213-311, Montgomery Co.—macadam resurfacing 4.71 mi. Contr. T-46-22, Talbot Co.; adv. E. N.-R. Apr. 21.

Md., Baltimore—Apr. 27, by Bd. Awards, concrete paving 12,000 sq.yd. streets listed in Contr. 617. H. Williar, Jr., Federal Reserve Bank Bldg., engr.

Massachusetts—Apr. 26, by Dpt. P. Wks., Boston, A. W. Dean, engr., bituminous macadam paving 8,184 ft. hy. incl. 2 rein.-con. bridges, Belchertown—bituminous macadam paving 16,658 ft. hy. and widening concrete bridge in Granby; bituminous macadam paving 2,900 ft. hy. Waltham,

Mass., Boston—Apr. 25, by Dpt. P. Wks., J. A. Rourke, comr., bituminous macadam paving Morton St., Dorchester, $25,000 or more; Groveland and Normandy St., Wards 17 and 18, est. $25,000.

Mass., Boston—Apr. 26, by Dpt. P. Wks., J. A. Rourke, comr., sheet asphalt or bituminous macadam paving Darlington St., etc., Wards 14 and 17, $25,000; Belden St., etc., Wards 7 and 16, $25,000.

Mass., Medford—Apr. 28, by Metropolitan Dist. Comn., 20 Somerset St., Boston, resurfacing Fellsway West from Cherry to Fulton Sts. and Forest and Elm Sts., involving 8,000 cu.yd. earth excav.; 3,900 tons broken stone, 28,500 gal. bituminous material, 1,550 cu.yd. concrete roadway surfacing, 4,350 lin.ft. 8 in. vitr. clay pipe underdrain, 4,900 lin.ft. straight granite edgestone, 500 lin.ft. curved granite edgestone. D. A. Ambrose, Metropolitan Dist. Comn., 20 Somerset St., Boston, assoc. civil engr.

Michigan—Apr. 27, by A. L. Burridge, div. engr., Cadillac, shaping, concrete paving 0.643 mi. FO 4-11C-2, Alpena Co., for State Hy. Comn., Lansing.

Michigan—May 4 by H. W. Hageman, div. engr., 504 Eddy Bldg., Saginaw, grading, shaping, drainage structures, 20 ft. concrete surfacing 12.398 mi. FO25-26C-1 and MO25-26C-2 Genesee Co., for State Hy. Comn., Lansing.

Minnesota—May 12, by St. Louis Co., Court House, grading, graveling 0.57 mi. Co. Rd. 102—1 mi. City Street 102—5.83 mi. S. A. Rd. 37, Project 2—1.5 mi. Co. Rd. 91, Project 3—300 ft. Co. Rd. 93—0.5 mi. Twp. Rd. 5711—0.75 mi. Co. Rd. 20—800 ft. Co. Rd. 315—2 mi. Co. Rd. 24—0.5 mi. Co. Rd. 83—3.5 mi. Co. Rd. 83—2 mi. Co. Rd. 87—1 mi. Co. Rd. 112—0.3 mi. Co. Rd. 113—0.5 mi. Co. Rd. 432—0.25 mi. Co. Rd. 643—eliminating frost heave on State Aid Rd. 7—resurfacing 3,000 ft. Co. Rd. 31—0.5 mi. Co. Rd. 116—1 mi. Co. Rd. 186—clearing, grubbing 4,235 ft. Co. Rd. 230—1 mi. Co. Rd. 648—covering swamp 2,000 ft. Twp. Rd. 5638—1,765 ft. on Co. Rd. 19—8,241 mi. ditching west side Co. Rd. 389—widening, grading, filling Co. Rd. 25—ditching and culverts Co. Rd. 83—clearing, grubbing 8 mi. Co. Rd. 445—constructing bridge Co. Rd. 22. Total est. $154,141.

Neb., Bridgeport—See "Contracts Awarded."

New York—A. W. Brandt, comr. Hys., Albany, bids about **May 10**, concrete paving 4 mi. New York Post Rd., from Scarsdale to Bronxville, 40 ft.

New York—May 10, by A. W. Brandt, comr. Hys., Albany, constructing hy. in Orange Co.; reconstructing hys. in Hamilton, Nassau, Oneida, Steuben, Sullivan, Orange and Westchester Counties; adv. E. N.-R. Apr. 21.

N. Y., Delhi—May 12, by W. J. Howland, supt. Hys. Delaware Co., Court House, grading, graveling, 4.64 mi. Fish Eddy-Sullivan County Line Rd., Project 15; adv. E. N.-R. Apr. 21.

N. Y., New York—Apr. 27, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., grading, curbing, sidewalks on Thwaites Pl., Duryea, Richardson, Holland, Olmstead and Zulette Aves., East 241st, Camp, Lyvere and Odell Sts.

N. Y., St. George—Apr. 27, by J. A. Lynch, pres. Richmond Boro, Boro Hall, grading, bituminous macadam paving 3rd St. and Merriman Ave.

Ohio—May 6, by O. W. Merrell, hy. dir. Columbus, grading, draining, brick paving 0.657 mi. hy. Ashland Co., $21,270—0.627 mi. Crawford Co., $40,953—5.436 mi. Stark Co., $268,797—0.488 mi. Stark Co., $29,703—0.885 mi. Summit Co., $52,305—1.206 mi. Summit Co., $77,009—0.959 mi. Wayne Co., $40,169—grading, draining relaid brick paving 0.389 mi. Sandusky Co., $21,123—grading, draining, tar macadam widening 2.114 mi. Ashtabula Co., $42,235—grading, draining, tar macadam paving 2.169 mi. Geauga Co., $23,653—gravel, slag or crushed stone resurfacing 3.156 mi. Brown and Clinton Counties, $63,197—grading, draining, concrete paving 0.483 mi. Erie Co., $19,480—4.975 mi. Gallia Co., $137,844—0.981 mi. Huron Co., $22,350—0.142 mi. Noble Co., $4,066—0.361 mi. Ottawa Co., $8,044—2.903 mi. Shelby Co., $73,088—grading, draining, rein.-con. widening 4.437 mi. Lucas Co., $59,342.

O., Canton—Bd. Control bids about July, repaving, widening, sewers, brick or asphalt paving to 40 ft. width, 1 mi. Tuscarawas St. E. $124,364. J. Shisler, City Hall, engr.

O., Cleveland—Apr. 28, by City, delinquent stone and cement sidewalks, Northerly, Southerly, Easterly and West Park Dists. $175,000. R. Hoffmann, City Hall, engr.

O., Cleveland—Apr. 26, by Bd. Comrs. Cuyahoga Co., 156,000 sq.ft. stone and sandstone sidewalks, and 5,200 sq.ft. 6 in. concrete sidewalks, Center Ridge Rd. $45,151. F. Williams, Court House, engr.

O., Columbus—Apr. 26, by W. P. Helenkamp, dir. P. Serv., grading, draining, curbing, laying necessary water and sewer connections, removing parkways, asphalt paving 4,700 ft. Broad St., from 4th St. to Parsons Ave., 80 ft. $101,475. R. H. Simpson, City Hall, engr.

Oregon—Apr. 28, by State Hy. Comn., Portland, paving 15 mi. Benton County Sect. West Side Pacific Hy., and 17 mi. Adams-Milton Sect. Oregon-Washington Hy., Benton and Umatilla Counties—2 mi. grading on New Era-Canby Sect. Pacific Hy., Clackamas Co.—3 mi. bituminous macadam wearing surface and 7 mi. oil mat surface treating Berry Creek-Florence Sect. Oregon Coast Hy.—and 9.2 mi. bituminous macadam wearing surface and 20.2 mi. oil mat surface—Hendricks Bridge-South Fork Bridge, Sect. McKenzie Hy., Lane Co.—crushed rock and crushed gravel surfacing 10,000 cu.yd. Heppner Junction-Irrigon Sect. Columbia River Hy., Morrow Co.—13.8 mi. crushed rock surfacing, 8.2 mi. bituminous macadam wearing surface and 5.6 mi. oil mat surface treatment on Boyer-Valley Junction Sect. Salmon R Hy., and Dolph-Sheridan Sect. Minnville-Ti mook Hy., Polk and Yamhill Counties—6.4 grading and 9 mi. resurfacing Pendleton-E grant Hill Sect. Old Oregon Trail, Umatilla R. H. Baldock, state hy. engr.

Pennsylvania—May 6, by State Hy. D Harrisburg, rein.-con. and macadam pavin mi. roads in Erie, Elk-Forest, Fulton, Gree Lackawanna, McKean and Wayne Counti S. S. Lewis, engr.; adv. E. N.-R. Apr. 21.

Pa., Bradford—City Council, soon takes b concrete resurfacing 3,640 lin.ft. East Main S 34 ft. $52,000. J. H. Quirk, City Hall, engr

S. D., Sioux Falls—May 9, by City, W. Leyse, aud., paving Euclid Ave. and port Minnesota Ave. $25,000. R. E. Bragsta city engr.

Texas—Apr. 23, by G. Gilchrist, engr. Sta Hy. Dpt., Austin, asphalt surface treating 10.61 mi. Hy. 40, Job No. M-10-V-6, Cherokee C $30,000—8.95 mi. Hy. 64, Job No. M-10-1 Van Zandt Co., $25,000, both 10 ft. wide gravel or crushed stone surfacing 9,248 cu.y Hy. 94, Job No. M-11-J-4, Trinity Co., $30,00

Texas—Apr. 23, by G. Gilchrist, state h engr., Austin, triple and single bituminous o waterbound caliche base course, concrete sledged sandstone base, grading, drainag structures, surface treating, etc. 158.521 m hys. in Randall, Brazoria, Lubbock, Walle Karnes, Houston, Kendall, Koerr, Hemphill Haskell, Ellis, Henderson and Matagorda Counties. Est. $1,790,000.

Washington—May 10, by S. J. Humes, di hys., Olympia, concrete paving 0.9 mi. Sta Rd. 5, Auburn vicinity, King Co.—gradin crushed stone surfacing 13,120 cu.yd. State R 9, Blyn East, Clallam Co.—14,460 cu.yd. Sta Rd. 14, Port Orchard to Tidewater Creek, Kitsap Co.

Wash., Cathlamet—Comrs. Wahkiakum Co bids early in June, widening, straightening mi. Lateral Hy. 9, Cathlamet to Headquarter Camp, 24 ft.

Wash., Everett—May 9, by Comrs. Snohomish Co., grading, surfacing 2 mi. Lake Roesiger H 24 ft. $23,000. R. D. Alverson, Everett Co engr.

Wash., Mount Vernon—May 6, by Comrs Skagit Co., Court House, grading, concrete paving 24,204 sq.yd. Lateral Hy. 8, $42,000 17,239 sq.yd. Lateral Hy. 7, $31,000. R. L Knapp, Mount Vernon, co. engr.

Wash., Port Angeles—May 13, by Comrs Clallam Co., biutminous macadam paving 1.25 mi. Clallam Co. Rd. F. Sullivan, Port Angeles co. engr.

Wash., Seattle—May 9, by Comrs. King Co., grading, concrete paving 27,800 sq.yd. Redmond-Bellevue Hy.—10,500 sq.yd. 35th Ave S.W. and 100th St. S.W.—grading, clearing, grubbing, graveling 3,800 cu.yd. Kummer Cut Off, North Sect.—widening Greenwood Ave., et al. T. D. Hunt, Seattle, co. engr.

Wash., Spokane—Apr. 28, by City Council, L. Lambert, comr. P. Wks., paving Crestline St.

West Virginia—Apr. 26, by State Road Comn., **Charleston (P means Project and F.A.P. Federal Aid Project)** grading, drainage structures 1.23 mi Phillips-Clarksburg Rd., P.3475 Barbour Co.—3.94 mi. Middleway-Inwood Rd., P.3526 Berkeley Co.—1.54 mi. same road, P.3527 Jefferson Co.—7 mi. Parkersburg-Waverly Rd., F.A.P. 182-E Wood Co.—concrete widening 0.2 mi. Hollidays Cove Rd. P.3114-D Brooks Co.—concrete surfacing 8.5 mi. Cumberland-Lincoln Hy., F.A.P. 22-A and 181-A and B Hancock Co.—1.6 mi. Fairmont-Crafton Rd., F.A.P. 155-D Marion Co.—3.45 mi. Parkersburg-St. Marys Rd., F.A.P.182-A and B Pleasants and Wood Counties—5.78 mi. Fayette County Line-Skelton Rd., P.42 Raleigh Co.—1.19 mi. Mt. Hope-Raleigh County Line Rd., P. 173-A Fayette Co.—grading, drainage structures, shale surfacing 5.27 mi. Troy-Doddridge County Line Rd., P.3441 Gilmer Co.—5 mi. Davis-Randolph County Line Rd., P.3518 Tucker Co.—shale surfacing 5.7 mi. Grafton-Halleck Rd., P.3479 Taylor Co.—grading, drainage structures, concrete surfacing 3.5 mi. Rossmer-Omar Rd., F.A.P. 153-B Logan Co. G. E. White, secy.

Wisconsin—Apr. 26, by State Hy. Comn., State Capitol Annex, Madison, grading, concrete paving 161,902 sq.yd. Sturgeon Bay—Egg Harbor Rd., Door Co.—95,419 sq.yd. New Lisbon-West Co. Line Rd., Juneau Co.—116,187 sq.yd. F.A.P. 214 Reopened and 396B Jackson Co., and F.A.P. 396D Monroe Co.—71,733 sq.yd. Tomah-Millston Rd., Monroe Co.—93,552 sq.yd. Merrillan-Fairchild and Fairchild-Neillsville Rds., Clark Co.—104,610 sq.yd. Spring Green-Mazomanie Rd., Iowa Co.—grading, bridging 5.417 mi. Tilleda-Wittenberg Rd., Option A, Shawano Co.—7.674 mi. same road Option B (also combination Option A and B)—4.851 mi. Illinois State Line-Emerald Grove Rd., Rock Co.—0.151 mi. Greenfield Grade Separation (approaches) Milwaukee Co.—0.379 mi. Powers Overhead (approaches) Dodge Co.—0.62 mi. Auburndale Grade Separation (approaches) Wood Co.—4.851 mi. Sterling Grade Separation (approaches) Washington Co.

Wisconsin—May 3, by State Hy. Comn., Madison, concrete paving 96,870 sq.yd. Langlade County Line-Monico Rd., S. T. Hy. 26 and 47 and U. S. Hy. 8, F.A.P. 380-A reopened and 436 reopened, Oneida Co.—177,246 sq.yd. Phillips-Fifield Rd., S. T. Hy. 13, F.A.P. 405-H, and 258, reopened, Price Co.—108,551 sq.yd. Rice Lake-Spooner Rd., U. S. Hy. 53, F.A.P. 433-A, Barron Co.—167,609 sq.yd. South County Line-Spooner Rd., U. S. Hy. 53, and S. T. Hy. 24, F.A.P. 433-B, 433-C, 385-B and 385-C, Wash-

Streets and Roads (Continued)

burn Co.—115,760 sq.yd. Amnicon Falls-Maple Rd., U. S. Hy. 2, F.A.P. 375-F. Douglas Co.—97,621 sq.yd. Brule-Iron River Rd., U. S. Hy. 2, F.A.P. 375-G and 278 reopened, Douglas and Bayfield Counties.

B. C., Vancouver—See "Contracts Awarded."

Ont., Kingston—See "Contracts Awarded."

Ont., London—See "Contracts Awarded."

CONTRACTS AWARDED

California—State Hy. Comn., Sacramento, grading, bituminous treated crushed gravel (plant mixed) on crusher run base surfacing 8.9 mi. road between Hat Creek Summit and Fall River Mills, Shasta Co., to E. C. Coates, 6th and Y Sts., Sacramento, $331,551—bituminous treated crushed gravel or stone on existing concrete surfacing, also widening to 28 ft., 6.7 mi. road between Lincoln and Sheridan, Placer Co., to Hemstreet & Bell, Box 770, Marysville, $39,172—grading, concrete surfacing 8.3 mi. El Centro and San Bernardino Lateral between Avenues 62 and 72, Riverside Co., to Lee Moor Contg. Co., El Paso, Tex., $257,301—asphaltic road oil as dust palliative 66.2 mi. roads in Yuba, Nevada and Sierra Counties, to C. F. Frederickson & Sons, Power Lake, $7,731—40.9 mi. Butte and Plumas Counties, to Basalt Rock Co., Napa, $7,263. Grand total $643,018. Noted Mar. 25 and 31.

California—C. H. Purcell, engr. State Hy. Comn., Sacramento, clearing, grubbing, grading, drainage structures, concrete and bituminous concrete surfacing 4.8 mi. hy. from Newport Beach to Corono del Mar, Orange Co., to Jahn & Brassi Constr. Co., Lane Mortgage Bldg., Los Angeles, $104,292.

California — State Hy. Comn., Sacramento, grading, concrete paving 7.5 mi. hy. between Bostonia and Chocolate Creek, San Diego Co., to Bodenhamer Constr. Co., 354 Hobart St., Oakland, $219,535; grading, oil treated crushed gravel or stone paving 3.7 mi. hy. between Blythe and Ehrenberg Bridge, Riverside Co., to Lee Moor Contg. Co., 1202 Basset Tower Bldg., El Paso, Tex., $131,866. Noted Mar. 24.

Calif., Los Angeles—Los Angeles Co., improving Anaheim-Telegraph Rd. from Bandini Crossing to Santa Fe R.R., to San Gabriel River, to J. L. McClain, 3452 West Slauson Ave., $104,769; San Fernando Rd., from Weldon Canyon Rd. to north city limits, to Martin Simunovich, 3305 West 66th St., $84,984.

Calif., San Jose—H. Pfister, clk. Santa Clara Co., oil macadam paving 41,291 sq.ft. Piercy Rd., to Periera & Reed, 545 Roosevelt Ave., Tracy, $3,980—322,990 sq.ft. Rincon Ave., to A. J. Raisch, Burrell Bldg., San Jose, $12,987—grading, oil macadam paving 119,300 sq.ft. Calaveras Rd., to L. C. Smith, 620 High St., Palo Alto, $19,278. Grand total $36,245. Noted Mar. 25.

Connecticut—J. A. Macdonald, state hy. comr., Hartford, bituminous macadam patching where needed hys. in Greenwich, New Canaan, Stamford, Norwalk, and Darien, to Webb Asphalt Paving Co., 37 Middletown Ave., New Haven—Enfield, to Adams Ruxton Constr. Co., 1387 Main St., Springfield, Mass.—Bristol, Plymouth, Plainville, Southington, New Britain, Farmington and West Hartford, to W. H. Hall Constr. Co., 408 Main St., Hartford—East Hartford, East Windsor, South Windsor, Glastonbury and Manchester, to Edward Balf Co., 37 Haynes St., Hartford—Ansonia, Derby, Beacon Falls, Seymour, Waterbury, Naugatuck, Portland, Middletown, Meriden, Wallingford, North Haven and Berlin, to Robinson & Powers, Inc., 16 West Main St., Meriden. Est. exceeds $50,000.

Connecticut—J. A. Macdonald, hy. comr. Hartford, waterbound macadam surfacing 2,650 ft. Wallingford Rd., Durham, to F. Arrigoni & Sons, 181 Main St., Middletown, $10,093, est. $12,999—7,042 ft. Chester Rd., Killingworth to D. Arrigoni, 605 Main St., Middletown, $43,350, est. $52,349—5,943 ft. Warrenville-Westford Rd., Ashford, to White Oak Excav., 164 Sifton Dr., New Britain, $19,012, est. $22,289. Grand total, $72,455. Noted Mar. 31.

Del., Wilmington—Levy Court Comn., reconstructing Barley Mill Rd., from improved road at Westover Hills, just outside of Wilmington and extending westward, 2 mi., to Oliver Paving & Constr. Co., 1902 West 6th St., $26,162.

Florida—State Roads Comn., Tallahassee, clearing, grubbing, grading, limerock base surface treating 0.67 mi. Project 1090, Rd. 160, Duval Co., to Duval Engr. & Contr. Co., Jacksonville, $11,728. Noted Mar. 31.

Ill., Danville—Vermilion Co., concrete surfacing 1.25 mi. Project 1-M.F.T., to F. C. Feutz, Paris, $15,164—3.5477 mi. Project 5-15d and 3.66 mi. Project 15-15d, to Mautz-Oren, Effingham, $36,946 and $43,959 respectively—1.663 mi. Project 7 M.F.T. and 4.135 mi. Project 21 M.F.T., to A. Adams, Clinton, Ind., $16,025 and $51,821 respectively—1.171 mi. Project 22-15d, to Bishop Constr. Co., Danville, $15,486. Grand total $179,401. Noted Mar. 24.

Ill., Mt. Carroll—Carroll Co., gravel surfacing 5 mi. Sect. 4, State Aid Route 13 and Sect. 5, State Aid Route 2, to J. D. Talbott, Monmouth, $10,191 nad $7,328 respectively. Noted Mar. 24.

Ill., Toledo—Cumberland Co., to Orville & Arnold, Casey, concrete surfacing 0.1326 mi. Sect. P-15d $1,670, 0.3625 mi. Sect. 2-M.F.T. $4,546, both 9 ft. wide, traffic bound surface course surfacing 0.668 mi. Sect. 3-M.F.T. $3,410, 0.7765 mi. Sect. 4-M.F.T. $3,068, 0.4735 mi. Sect. 6-M.F.T. $3,565. Grand total $16,259. Noted Mar. 31.

Indiana—State Hy. Comn., Indianapolis, grading, drainage structures, concrete surfacing 53,524 sq.yd. Rd. 44, Project 250-80-A1, Fayette Co., to J. R. Hiatt Co., 40 East 54th St., Indianapolis, $72,958. Est. $100,644. Noted Feb. 18.

Ind., Indianapolis—Bd. P. Wks., City Hall, 8 in. concrete paving West 16th St., from Capitol to Northwestern Aves., and asphalt paving North Illinois St., to R. McCalman, Inc., Danville, Ill., $33,523 and $7,500 respectively est. $54,000 and $9,124 respectively. Noted Mar. 25.

Ind., Laporte—Laporte Co., improving Lewis Harness Rd., to A. W. Taylor Constr. Co., $39,900. Est. $58,373.

Iowa—State Hy. Comn., Ames, grading, drainage structures 3.21 mi. Rd. 186, Adams Co., and 7.959 mi. Rd. 100, Cass Co., to G. W. Condon, 223 Grain Exch. Bldg., Omaha, Neb., $26,606 and $29,099 respectively. Noted Apr. 7.

Ia., Des Moines—Polk Co., grading roads, to J. P. Abramson Constr. Co., 916 Hubbel Bldg. $3,845, to V. L. Lundeen, Missouri Valley $10,437, and to C. Longerbone, Des Moines, $5,228; bridge, to E. A. Kramme Co., Des Moines, $5,861. Grand total $25,371. Noted Mar. 25.

Ia., Ft. Madison—Lee Co., surfacing roads, to P. P. Hinote, Oakville $7,700, and to McManus Quarry Co., Keokuk $15,913; grading roads, to A. C. Rauenbeuhler, Keokuk, $15,944. Grand total $39,557. Noted Mar. 25.

Ia., Knoxville—Marion Co., surfacing roads, to H. C. Young, Prairie City $16,947, to Harvey Sand & Gravel Co., Harvey, $11,115, and to L. Vissar, Bussey, $13,055. Grand total $41,144.

Ia., Pleasant—Henry Co., grading, drainage structures 10.48 mi. local, and 2 mi. trunk roads, to R. J. Ryan, Missouri Valley, $20,845.

Ia., Primghar—O'Brien Co., grading 6 mi. trunk roads 14.5 mi. local roads, to Rebon Minion, Bingham Lake, Minn., $9,250 and to M. Peterson, Laurens, $8,991. Noted Mar. 17.

Ia., Tipton—Bd. Comrs. Cedar Co., grading, drainage structures 16.37 mi. local roads to McGuire Bros., Forest City, $20,991.

Kan., Chanute—City, C. G. Wood, clk., to D. E. Minton, 1506 Stevens St., Parsons, old brick re-paving 4,467 sq.yd. Western Ave. at $0.80 per sq.yd., concrete paving 1,825 sq.yd. on either side present paving Main St. at $1.43 per sq.yd., concrete paving Main St., from Steuben to Central Sts. $12,487.

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, concrete paving 1.02 mi. Contr. C1-103-52, Carroll Co., to Thomas, Hunter & Bennett, Westminster, $28,696; 0.88 mi. Contr. Wo-117-12, Worcester Co., to Phillips Bros., Salisbury, $10,621. Noted Mar. 24 and Apr. 7, respectively.

Maryland—State Roads Comn., Baltimore, G. C Uhl, chn., gravel surfacing 0.93 mi. Contr. Sm-90-82, St. Mary's Co., to Southern Maryland Contg. Co., 20 East Lexington St., Baltimore, $13,193; concrete paving 2 mi. Contr. Wi-89-12, Wicomico Co., to Hannemann-Burroughs Co., Salisbury, $31,908. Noted Mar. 31.

Md., Towson—Baltimore Co., Court House, Group 1, concrete shoulders 1.7 mi. Back River Neck Rd., from Eastern Ave. to Cape May Rd., 15th Dist., to F. Carozza, 2444 North Charles St., Baltimore, $30,200. Noted Mar. 24.

Mich., Mason—Ingham Co. Road Comn., shaping, drainage, Class A gravel surfacing on 24 ft. grade 2.269 mi. Road 140 (Leroy Rd.) and 3.358 mi. Rd. 141 (Van Town Rd.), to Briggs & Cheney, Dansville, $4,336 and $10,246 respectively—shaping, drainage, 12 ft. Class A gravel on 24 ft. flat grade 1.992 mi. Rd. 142 (Wheatfield Rd.), to C. Sadley, Williamston, $4,378; Bridge 15, 10 span, 25 ft. long, 6 ft high, to Wolverine Eng. Co., Bridge 14, Mason, $655—10 ft. span, 7 ft. high, 33 ft. long, to Johnson & Greene, Ann Arbor, $910. Grand total $20,525.

Neb., Bridgeport—Grading, guttering, curbing, concrete paving 10 blocks Main St., Paving Dist. 1, 20 ft., day labor. McNamara & Nosky, North Platte, engrs.

Neb., Omaha—City, J. B. Hummel, park comr., grading, 140,000 cu.yd. in Benson Park, to F. L. Busche, 4118 North 30th St., at 10c. per cu.yd.

Ohio—O. W. Merrell, state hy. dir., Columbus, tar macadam resurfacing 1.022 mi. Sect. "A" end part of "B" Ohio River, Adams Co., to W. F. Seymore, 648 4th St., Portsmouth, $25,731—1.258 mi. Sect. "B" Ohio River Rd., Adams Co., to S. Monroe & Sons Co., 2460 Gallia St., Portsmouth, $39,411—concrete and bituminous macadam paving 2.331 mi. Ashland Co., to Mansfield Asphalt Paving Co., Mansfield, $56,262—bitulithic concrete paving 6.187 mi. Hancock Co., to A. Langenderfer, 851 Spitzer Bldg., Toledo, $94,766—3.33 mi. Lake Co., to C. A. White Constr. Co., 86 Wood St., Willoughby, $117,460—concrete paving 6.71 mi. Champaign Co., to Hinton & Smalley, Celina, $110,522—1.289 mi. Columbiana Co., to Victor Olson Constr. Co., 552 Market St., Youngstown, $25,994—5.508 mi. Defiance Co., to W. L. Johnson Constr. Co., Hicksville, $102,773—2.989 mi, Jackson Co., to Ray Strawser, Inc., 852 North Cassaday Ave., Columbus, $62,952—brick paving not incl. furnishing, delivering brick 1.338 mi. Lucas Co., to McKechnie-Pierce Co., 112 East Woodruff Ave., Toledo, $103,415, furnishing, delivering brick to Metropolitan Paving Brick Co., 1017 Renkert Bldg., Canton, $29,956. Grand total $769,242. Noted Apr. 7.

Oklahoma—State Hy. Dpt., Oklahoma City **(S.A.P. means State Aid Project and F.A.P., Federal Aid Project)**, grading, drainage structures 6.936 mi. S.A.P. 813 A, north of Leedey, 32 ft. Dewey Co., to J. Biggs, Clinton, $22,149 est. $25,000—4.683 mi. S.A.P. 669-A, south of Gould and 6.078 mi. S.A.P. 669-B, both 30 ft. to Kodane Constr. Co., Frederick, $17,296 and $17,176 respectively; est. $25,000 each—5.653 mi. F.A.P. 268-B, Tillman Co., 32 ft., to Merveldt & Lawson, El Reno, $20,936; est. $25,000—65,820 lin.ft. guard rail on roads in Muskogee, Rogers, Creek, Craig and Tulsa Counties, to J. C. Holden, Ardmore, $15,797; est. $25,000. Grand total $93,354.

Oregon—State Hy. Comn., Salem, furnishing 12,000 cu.yd. broken stone in stock piles Douglas and Coos Counties, to K. Leen, Portland $19,400—grading, gravel surfacing 45,000 cu.yd. Baker Co., to C. Nyberg, Realty Bldg., Spokane, Wash., $99,527—17,500 cu.yd. road in Wasco and Sheridan Counties and 7,000 cu.yd. Union Co., to J. C. Compton, McMinville, $49,772 and $21,615 respectively, grading, crushed rock and gravel surfacing; 10 mi. Baker and Malheur Counties, 20 ft., to Dunn & Baker, Klamath Falls, $65,980—oiling and bituminous macadam paving 16.2 mi. Tillamook Hy., 18 ft., Polk and Yamhill Counties, to Wrenn & Greenough, Chamber of Commerce Bldg., Portland, $161,688—graveling 19.43 mi. Curry Co., 20 to 24 ft., and crushed rock surfacing 10 mi. Klamath Co., 20 ft., to A. S. Wallace, Roseburg, $47,380 and $102,305 respectively. Grand total $567,667. Noted Mar. 24.

Pa., Phila.—Bureau Hys., Dpt. P. Wks., City Hall Annex, F. H. Craven, dir., curbing, footway work in Schedule A, Hy. Dist. I, Schedule B, Hy. Dist. 2 to 8 Aversa 731 Watkins St.—Schedule A, Hy. Dist. 2, Schedule B, Hy. Dist. 6, to J. Cacchio, 6443 Vine St.—Schedule A, Hy. Dist. 3, to M. Cacchio, 2631 South 16th St.—Hy. Dists. 5, 6 and 7, to J. Paolino, 1339 South Cleveland Ave.—Schedule B, Hy. Dist. 1, to Footway Paving Co., 202 West Simpson St.—Hy. Dist. 3, to State Paving & Constr. Co., 836 North Holly St.—Hy. Dists. 5 and 7, to J. J. McHugh, 1617 Race St.—Schedules C and D, fabricated steel for bridges, to Belmont Iron Wks., 2215 Washington Ave. Contracts awarded in March. Noted Feb. 25.

Pa., Pittsburgh—Methodist Episcopal Church Union, 7th and Smithfield Sts., improving Perry Hy., also sewer and water lines for Epworth Fresh Air Farm, to John Carson & Sons Co., 1301 Fulton Bldg. Est. $25,000. Noted Mar. 24, under "Unclassified Buildings."

Texas—G. Gilchrist, state hy. engr., Austin, to N. P. Turner, Marshall, double bituminous surface treating 7.3 mi. Hy. 1, Garland to Dallas-Rockwall County line, $6,779; seal coating 6.34 mi. Hy. 15, $3,295; 8 mi. Hy. 140, $3,599, all foregoing in Dallas Co.—to G. B. Dyson, McCamey, seal coating 17.76 mi. Hy. 67, Stephens Co., $9,340; 9.1 mi. Hy. 1 Reeves Co., $5,189; 7.28 mi. Hy. 82 Ward Co., $4,363; 15.81 mi. Hy. 82, Winkler Co., $9,468—to Haden & Austin, Post-Dispatch Bldg., Houston, seal coating 3.21 mi. Hy. 62, Orange Co., $2,017; Hy. 8 $1,550, and 12.6 mi. Hy. 40, both Harden Co., $5,845, 8.1 mi. Hy. 8, Sabine Co., $4,319, 18.83 mi. Hy. 157, Stephens Co., $9,579; double bituminous surfacing 20 mi. Hy. 66, Blanco Co., $12,311; 2.7 mi. Hy. 19, Fort Bend Co., $4,462; 12.06 mi. Hy. 29, Gonzales Co., $6,171—to Reynolds & Sutton, Tyler, special seal coating 5 mi. Hy. 8, Hardin Co., $1,417—to Lone Star Constr. Co., Milam Bldg., San Antonio, double bituminous surface treating Hy. 29, Williamson Co., $6,584; 5.5 mi. Hys. 23 and 1, Eastland Co., $7,766; 5.65 mi. Hy. 23, Callahan Co., $6,624—to Dozier Constr. Co., Austin, 7 mi. Hy. 29, Caldwell Co., $10,277—to R. W. McKinney, Nacogdoches, double bituminous surface treating 3.2 mi. Hy. 1, Franklin Co., $4,916; 3.1 mi. Hy. 5-A, Red River Co., $4,307; 8.7 mi. Hy. 34, Fannin and Hunt Counties, $14,134; 4.32 mi. Hy. 22, Cherokee Co., $7,287; 5 mi. Hy. 34, Ellis Co., $6,886; 7.76 mi. Hy. 8, Harrison Co., $12,701; Hy. 40, Anderson Co., $7,335; improving 5 mi. Hy. 3, Colorado Co., $2,291—to Brown & Root, Inc., Colorado St., Austin, triple bituminous surface treating approach to Brazos River Bridge, Hy. 67, Young Co., $12,144—to F. P. McElwrath Constr. Co., Corsicana, single bituminous surface treating 9.47 mi. Hy. 57, San Patricio Co., $9,875—to Uvalde Rock Asphalt Co., Frost Natl. Bank Bldg., San Antonio, limestone and rock asphalt surface treating 9.15 mi. Hy. 3, Bexar Co., $11,755—to P. H. Dalton Co., Arkadelphia, Ark., gravel base course surfacing 6.34 mi. Hy. 22, Shelby Co., $5,816—to W. O. Winston, Many, La., jetting, pounding embankments, 20.5 mi. hy., Colorado and Fayette Counties, $3,085—to J. S. Moore & Sons, Lufkin, widening from 16 to 22 ft., concrete girder bridge, Hy. 32, Walker and Madison Counties, $1,834—to Hannah Constr. Co. and F. and Don Hall, Waco, grading, draining Hy. 137, Gaines Co., $16,862—to Huddleston & Work, Crosbyton, 12.9 mi. Hy. 24, Cochrane Co., $8,239. Grand total $250,422.

Texas—G. Gilchrist, state hy. engr., Austin, triple asphalt on caliche base course surfacing 24.638 mi. Hy. 27, Federal Aid Project 612 B and C, Unit 2, Pecos Co., to E. R. Leach, 1212 Allen Bldg., Dallas, $111,853. Est. $140,000. Noted Feb. 18.

Tex., Dallas—Dallas Co., c/o C. E. Gross, aud., grading, drainage structures, concrete paving Denley Dr. from Lancaster Rd. to Grant St., and concrete paving 1.75 mi. Industrial Blvd. at Westmore Rd. to Irving-Ft. Worth Pike, to Central Bitulithic Co., Praetorian Bldg., $27,675 and $24,405 respectively.

Tex., San Antonio—City, 2 in. asphalt on 8 and 10 in. gravel and rock base surfacing 42,-

Streets and Roads (Continued)

000 sq.yd. McKinley Ave. and Kellar St., to Alamo Paving Co., Burnett St., $27,528.

Vermont—State Hy. Dpt., Montpelier, concrete paving 7.6 mi. hy., Federal Aid Project 86-C, Lyndon-Burke, to B. Perini & Sons, Inc., Framingham, Mass., $178,984. Noted Mar. 31.

Virginia—State Hy. Comn., Richmond, concrete surface patching 14,500 sq.yd. (regular bid) or high early strength Portland cement concrete paving 14,500 sq.yd. (alternate bid) Norfolk, Virginia Beach, Fort Storey and Norfolk-City Water Works, Route 10: 2,500, Project C-2-32 Princess Anne and Norfolk Counties, to Tunstall-Johnson Co., Inc., Norfolk, $36,250 (regular bid) or $29,870 (alternate bid). Noted Apr. 7.

Washington—S. J. Humes, dir. Hys., Olympia, concrete paving 6.15 mi. Cosmopolis-Artic Rd., Grays Harbor Co., to General Constr. Co., 3840 Iowa Ave., Seattle, $123,286—6.257 mi. Discovery Bay to Ludlow Rd., Jefferson Co., to Puget Sound Bridge & Dredging Co., 2929 16th Ave. S.W., Seattle, $127,005—47.4 mi. State Rds. 14 and 21, Mason, Kitsap and Pierce Counties, to Northwest Roads Co., Route 7—Box 1210, Portland, Ore., $167,696—reconstructing Adna Bridge over Chehalis River, Lewis Co., to Clackamas Constr. Co., Tillamook, Ore., $29,517. Grand total $447,504. Noted Mar. 24.

Washington—S. J. Humes, dir. P. Hys., Olympia and G. W. Roberge, secy. Bd. P. Wks., Seattle, grading, concrete sidewalks, sewers, watermains, paving approach (Aurora Ave. et al) to Lake Washington Bridge, Seattle, to Northwest Constr. Co., 202 West 62nd St., Seattle, $382,812. Noted Mar. 17.

Wash., Chehalis—Lewis Co., grading, crushed stone surfacing 2.4 mi. Cinebar-Silver Creek Rd., 24 ft., to Hendricks & Co., Chehalis, $27,351. Est. $27,000. Noted Mar. 17.

Wash., Seattle—King Co., Court House, grading, graveling 2 mi. Kummer cut-off (south sect.), to Hallstrom & Hallstrom, 949 20th Ave., $23,953. Noted Mar. 31.

B. C., Vancouver—City, asphalt and concrete paving Kingsway, to G. W. Ledingham, 1075 Main St., $44,338; laying concrete sidewalks, day labor. $36,000. C. Brackenridge, City Hall, engr.

Ont., Kingston — City, asphalt on concrete paving Willingdon Ave., Alfred, Stanley, Wellington, King, Russell, Park, Johnson, Macdonell, Napier and Hill Sts., day labor. $75,000. H. S. Dick, City Hall, engr.

Ont., Kingston—Frontenac Co., county road maintenance, incl. grading, filling, ditching, drainage, surfacing, culverts, graveling, day labor. $35,000. J. E. Goodman, County Bldg., engr.

Ont., London—Middlesex Co., grading, drainage, surfacing culverts, etc., day labor. $80,000. C. Talbot, County Bldgs., engr.

Ont., Toronto — Toronto and York Roads Comn., 57 Adelaide St. E., grading, ditching, filling, concrete culverts, etc., 1¼ mi. hy., Whitchurch Twp., to R. A. Johnston, 88 Broadview Ave. Est. $25,000.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

Ont., Galt—Province of Ontario and residents of Grand River Valley, 4 storage reservoirs as means of flood control for Grand River, incl. concrete dams with sluices, etc. $2,955,000. T. H. Hogg, 190 University Ave., Toronto, and L. V. Rorke, Surveyor-General, Parliament Bldgs., Toronto, engrs.

BIDS ASKED

Kan., Winfield—See "Contracts Awarded."

Louisiana—Apr. 26, by Bd. State Engineers, 207 New Orleans Court Bldg., New Orleans, digging 15,500 ft. drainage canal along levee from River Styx to Indian Ferry Bayou, incl. 53,000 cu.yd. excav., for Fifth Louisiana Levee Dist.

La., New Orleans—Apr. 26, by State Bd. Engineers, New Orleans Court Bldg., digging 15,500 ft. drainage canal 6 ft. bottom width, 10 to 16 ft. slide slopes, along levee from River Styx to Indian Ferry Bayou, incl. 53,000 cu.yd. excav., for Fifth Louisiana Levee Dist., Tensas Parish.

Mass., Harwich—Apr. 26, by Dpt. P. Wks., A. W. Dean, engr., Boston, placing 1,000 tons stone rip rap and constructing 5 stone jetties and repairing existing structures.

O., Cleveland—Apr. 28, by City, W. J. Kennedy, serv. dir., dredging Cuyahoga River. $80,000. R. Hoffmann, City Hall, engr. Noted Mar. 24.

CONTRACTS AWARDED

Kan., Winfield—City, H. H. Hanlen, clk., flood protection work, 45 ft. high earth embankment and stone rip rap along river front, day labor.

O., Hamilton—At office C. H. Eiffert, ch. engr. Miami Conservancy Dist., Dayton, excavating, removing 400,000 cu.yd. gravel, sand and earth from channel of Miami River, to Ward-Hayes Constr. Co., Hamilton, at $0.31 per cu.yd., total $124,000. Noted Mar. 10.

Pa., Jamestown—Commission of Pennsylvania Dpt. Forests and Waters, 112 Market St., Harrisburg, embankment, incl. 26,000 cu.yd. excav., 30 ft. high on Espeyville-Andover Rd. connecting Pymatuning Dam, North Shenango Twp., to C. R. Cummins, Inc., Union Trust Bldg., Cleveland, O., $8,923. Noted Sept. 17, under "Waterworks."

Alta., Calgary—See "Waterworks."

Ont., Toronto — Toronto Harbour Comrs., Harbour Bldg., hydraulic dredging 380,000 cu.yd. Toronto, Harbour, to Canadian Dredging Co., Harbour Bldg. Est. $75,000.

Bond Elections

Coming Bond Elections

Sewage Disposal Plant—Somerset, Pa., April 26, $100,000.

Sewage Disposal Plant Impvts. — Tyler, Tex., May 16, $100,000.

Bonds Voted

Water System—La Habra, Calif., $100,000.

Water System Extensions — San Clemente, Calif., $60,000. W. E. Ayer, City Engr.

Sewers and Water System—Campbellsport, Wis., $60,000. J. Donohue Eng. Co., Sheboygan, Engrs.

Sewage System and Disposal Plant — Kohler, Wis., $100,000.

Bonds Defeated

Waterworks, Sewers and Disposal System — Steelville, Mo., $75,000.

Watermains—Peekskill, N. Y., $50,000.

Sewers—El Centro, Calif., $185,000.

Sewage Disposal Plant — Ann Arbor, Mich., $450,000.

Light and Power Plant — Marengo, Iowa, $125,000.

Playgrounds—Milwaukee, Wis., $200,000.

High School and Swimming Pool—Eau Claire, Wis., $200,000.

FEDERAL GOVERNMENT

PROPOSED WORK

Conn., New London—PIERS—U. S. Coast Guard, Wash., D. C., preparing plans two 350 x 24 ft. finger piers, at U. S. Coast Guard Academy, Fort Trumbull. $85,000.

Ind., Plymouth—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., soon takes bids U. S. Post Office. J. H. Wildermuth, 673 Bway., Gary, archt. Noted Nov. 12.

Neb., Omaha — FEDERAL BUILDING — Treas. Dpt. at office Sup. Archt., Wash., D. C., bids late in May or June, 11 story, basement, 90 x 132 ft., limestone, granite federal building, $740,000. Kimball, Steele & Sandham, 838 World-Herald Bldg., and G. B. Prinz, 1037 Omaha Natl. Bank Bldg., Omaha, assoc. archts. Noted Mar. 3.

Tenn., Memphis—PUMP—U. S. Eng., 1006 McCall Bldg., rejected bids 15 in. sand and gravel pump. Former bids rejected.

BIDS ASKED

Conn., Bridgeport—DREDGING—May 20, by U. S. Eng., Providence, R. I., 467,000 cu.yd. in Bridgeport Harbor; adv. E. N.-R. Apr. 21.

Conn., Newington—FENCE and GATES—May 3, by Vet. Bu., Arlington Bldg., Wash., D. C., brick posts, limestone base and caps, wrought iron fence and gates, grading, concrete foundations, anchorages, culvert, electric lamps, electrical work.

Conn., Putnam—POST OFFICE—May 11, by Treas. Dpt. at office Sup. Archt., Wash., D. C., brick, stone, Richmond and Main Sts. $115,000. Noted Dec. 11.

D. C., Wash.—ELEVATOR, etc.—May 23, by Treas. Dpt. at office Sup. Archt., Wash., D. C., elevators, truck lifts, dumbwaiters, at U. S. Post Office.

D. C., Wash.—POST OFFICE—May 23, by Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing (except elevators, truck lift, dumbwaiter, and post office station loading platform doors) U. S. Post Office Department Building; adv. E. N.-R. Apr. 21.

Fla., Jacksonville—FEDERAL—May 3, by Treas. Dpt. at office Sup. Archt., Wash., D. C., foundations to U. S. Post Office. Noted Apr. 18.

Ill., Joliet—ELECTRICAL EQUIPMENT—May 18, by U. S. Eng., 1st Chicago Dist., 333 North Michigan Ave., Chicago, furnishing labor, service, material, equipment and supplies for 5 classes lock electrical equipment for Brandon Road Lock, 2.5 mi. downstream from here; adv. E. N.-R. Apr. 21.

La., Shreveport—DRAINAGE SYSTEM—Apr. 25, by Con. Q. M., Barksdale Field, constructing gridiron drainage system for flying field, at Barksdale Field. $100,000. Noted Mar. 17.

Me., Portland—EXCAVATION, etc.—May 9, by Treas. Dpt. at office Sup. Archt., Wash., D. C., excavation and foundations for U. S. Post Office.

Me., Saco—ROCK REMOVAL—May 2, by U. S. Eng., Custom House, Boston, Mass., rock removal in Saco River; adv. E. N.-R. Apr. 21.

Mass., Boston—BAR STEEL—Apr. 26, by Bureau Supplies & Accounts, 321,000 lb. bar steel, Schedule 7850.

Mich., Holland—DREDGING—May 18, b U. S. Eng., Milwaukee, Wis., in Black Lak Noted Dec. 17.

Miss., Vicksburg—CREOSOTED PILING-Apr. 26, by U. S. Eng., P. O. Box 667, creosoted piling.

Mo., Trenton—POST OFFICE—May 12, b Treas. Dpt. at office Sup. Archt., Wash., D. C U. S. Post Office. Noted Feb. 25.

Mont., Billings—EXTENDING, etc.—May 20 by Treas. Dpt. at office Sup. Archt., Wash., D C., extending, remodeling (except elevator) U S. Post Office and Court House; adv. E. N.-R. Apr. 21.

Nev., Las Vegas—BULKHEAD GATES, etc —May 2, by Bureau Reclamation, Custom House, Denver, two 50 x 50 ft. bulkhead gates frames, 2 twin cylinder hydraulic bulkhead gat hoists, two 35 x 50 ft. stoney gates with frames guards, etc., 2 electric motor driven hoists (total 7,000,000 lb.) for Hoover Dam. Material to be installed by Government. Spec. 533

Nev., Las Vegas—OUTLET PIPES—June 15 by Bureau Reclamation, Denver, Colo., furnishing, erecting plate-steel outlet pipes with branch connections, wye branches, manifolds in concrete lined tunnels at Hoover Dam, Boulder Canyon Project, Arizona-California-Nevada; adv. E. N.-R. Apr. 21.

N. J., Paterson—POST OFFICE—May 23, by Treas. Dpt. at office Sup. Archt., Wash., D. C. U. S. Post Office. Noted Apr. 7.

New York and New Jersey—DREDGING—Apr. 23, by U. S. Eng., 39 Whitehall St., New York, 1,250 cu.yd. soft material and blasted rock from Arthur Kill Section of New York and New Jersey Channels; adv. E. N.-R. Apr. 21.

N. Y., Brooklyn—CABLE—Apr. 29, by Signal Supply Officer, Army Base, Brooklyn, 56,000 ft. cable.

N. Y., Brooklyn—WIRE, etc.—Apr. 26, by Signal Supply Officer, Army Base, 58th St. and 1st Ave., 750,000 ft. wire; 25,000 lin.ft. lumber.

O., Fairfield—FUELING SYSTEM—May 11, by Con. Q. M., Patterson Field, constructing and completing gasoline fueling system at Lunken Field, Cincinnati; adv. E. N.-R. Apr. 21.

S. C., Fort Moultrie—ELECTRIC DISTRIBUTION SYSTEM, etc.—May 10, at office Con. Q. M., constructing electric distribution system, installing electric ranges; adv. E. N.-R. Apr. 21.

Tex., Plainview—POST OFFICE—May 10, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted Nov. 19.

CONTRACTS AWARDED

Calif., Alameda—DRAINAGE SYSTEM—Con. Q.M., drainage system at Benton Field Air Depot, to Jacobs & Pattiani, 337 17th St., Oakland, $38,881. Noted Feb. 18.

Ill., Peru—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Tulley Largura, Gary, Ind., $61,700. Noted Jan. 7.

Ill., Rock Island—ELECTRIC ENGINES—U. S. Eng., Federal Bldg., 2 electric engines mounted on steel or iron base, to Silent Hoist, Winch & Crane Co., 762 Henry St., Brooklyn, N. Y. $4,394.

Mass., Buzzards Bay—LUMBER—U. S. Eng., 35 piles 60-65 ft. long; 35 piles 50-55 ft. long, to Priest Lumber Co., National Bank Commerce Bldg., Norfolk, Va., $1,312.

Mich., Detroit — BOILER HOUSE, etc. — Treas. Dpt. at office Sup. Archt., Wash., D. C., boiler house and remodeling quarters, to Misch Bros., 3001 Gratiot Ave., $34,000. Noted Feb. 25.

Mich., Lapeer—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Misch Bros., 3001 Gratiot Ave., Detroit, $56,300. Noted Mar. 3.

N. J., Princeton—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Brooklyn & Queens Screen Co., Garden City, N. Y., $59,000. Noted Mar. 17.

N. Y., Elmira—ELEVATOR—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator in U. S. Post Office and Court House, to Warsaw Elevator Co., 227 Fulton St., New York, N. Y., $7,798. Noted Jan. 28.

O., Canton—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Gibbons-Grable Co., Canton, $267,100. Noted Mar. 3.

O., Chillicothe—STOKERS, etc.—Dpt. Justice, Bureau Prisons, Wash., D. C., stokers, etc., at power house, to Hoffman Combustion Eng. Co., 410 Ford Bldg., Detroit, Mich., $17,600; smoke flue, to Erie City Iron Wks., Erie, Pa., $1,552. Noted Apr. 14.

Tex., Fort Sam Houston—ELECTRIC SYSTEM—Con. Q. M. underground electric system, to Harrison-Wright Co., Box 928, Charlotte, N. C., $19,825. Noted Feb. 18.

Wash., Tacoma—WATER TANK—Dpt. Justice, U. S. Penitentiary, McNeil's Island, 50,000 gal. steel water tank on 75 ft. tower, to Pittsburgh-Des Moines Co., Smith Tower, Seattle, $3,790. Est. $5,000.

Alaska, Fairbanks—POST OFFICE, etc.—McDonald Constr. Co. (contractors) Syndicate Trust Bldg., St. Louis, Mo., structural steel post office, court house, jail, to McClintic Marshall Co., Bethlehem, Pa., for Treas. Dpt. at office Sup. Archt., Wash., D. C., Noted Mar. 31, under "Contracts Awarded."

FEDERAL POWER COMMISSION

Applications for License and Permits Licenses

1200 — Chelan Copper Mining Co., Seattle, Wash., preliminary permit power project on Railroad Creek in Chelan Co., affecting lands within Chelan National Forest.

1201—Arizona Power Co., Prescott, Ariz., license transmission line in Yavapai County, Ariz., affecting lands within Prescott and Coconino Natl. Forests.

1202—William Cushing Hammatt, 520 Hearst Bldg., San Francisco, Calif., preliminary permit power project on Middle and North Forks American River, Placer and Eldorado Counties, Calif., affecting lands within Tahoe and Eldorado Natl. Forest.

1203—F. D. Foster, 3614 34th St., Wash., D. C., preliminary permit power project on Little Popo Agie River, Louis Creek, and Louis Lake in Fremont Co., Wyoming, affecting lands within Washakie Natl. Forest.

RAILWAYS

PROPOSED WORK

N. Y., New York—West Shore R.R. Co., c/o New York Central R.R., F. B. Freeman, ch. engr., 466 Lexington Ave., New York and Lehigh Valley R.R., G. T. Hand, ch. engr., 143 Liberty St., New York, changes, installing interlocking switch and signal apparatus. Work ordered by Pub. Serv. Comn.

BIDS ASKED

Missouri—See "Contracts Awarded."

CONTRACTS AWARDED

Missouri—Wabash R.R. Co., E. L. Cruger, ch. engr. and W. S. Franklin, pres. and receiver, Exchange Bldg., St. Louis, authorized by C. B. Davis, U. S. Dist. Judge, St. Louis, raising gravel ballast on roadbed between Essex and Cardiff, Ill., and between Cardiff and Brisbane, Ill., $70,556; between Newell and Danville, repairing roadbed $16,933; repairing roadbed between Montpelier and Edon, O., $23,646; repairing roadbed between Carrollton and Hardin, Mo., $72,360; widening embankment between Essex and Cardiff, Ill., $9,000; replacing bridge near Sampsel, Mo., $7,898, all foregoing by company forces. Grand total $200,383. Noted Apr. 7.

SUBWAYS AND TUNNELS

CONTRACTS AWARDED

Mass., Boston—City, Hospital Dpt., 2 tunnels under Albany St. to connect with main hospital building, City Hospital, Harrison Ave., to A. Singarella, 22 Tremlett St., Dorchester, $51,000. Noted Mar. 17.

GRADE CROSSINGS

PROPOSED WORK

N. Y., Kingsbury—Delaware & Hudson R.R. Co., J. MacMartin, ch. engr., Albany, eliminating grade separation Adams Basin Crossing. Pub. Serv. Comn. directed acquiring land.

N. Y., Oswego—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., eliminating grade crossing Tioga Co. To exceed $25,000. Pub. Serv. Com. approved acquiring land.

N. Y., Portland—Pennsylvania R.R. Co., T. J. Skillman, ch. engr., Broad Street Sta., Phila., Pa., eliminating grade crossing, on Westfield-Brockton Hy. To exceed $25,000.

N. Y., Walton—New York, Ontario & Western R.R. Co., W. C. Heidenthal, engr., Middletown, eliminating Rock Rift-Colcherston County Highway Crossing. Pub. Serv. Comn. holding hearings.

O., Cleveland—See "Bridges."

Ont., Toronto—See "Bridges."

BIDS ASKED

Wisconsin—See "Streets and Roads."

CONTRACTS AWARDED

N. Y., Windsor—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., cable and line changes and new cable for grade crossing work, to Western Union Telegraph Co., 40 Broad St., New York.

DAMS

PROPOSED WORK

Ill., Springfield—City Council, W. J. Spaulding, comr., dam and spillway. $500,000. **Maturity this year.** Burns & McDonnell Eng. Co., Inter-State Bldg., Kansas City, Mo., consult. engrs.

O., Bexley—City appropriated $15,000, for 3 dams in Alum Creek, beautification of banks and other work.

Ont., Galt—See "Excavation, Drainage, Irrigation, Levees, River and Harbors."

BIDS ASKED

Calif., Los Angeles—See "Contracts Awarded."

BIDS RECEIVED

Calif., San Diego—City, Apr. 11, constructing El Capitan Reservoir Dam, Spillway and Outlet Work, from H. W. Rohl, 4351 Alhambra Ave., and T. E. Connolly, both Los Angeles, $2,332,800. Noted Mar. 10.

CONTRACTS AWARDED

Calif., Los Angeles—Water and Power Plant Dpt., H. A. Van Norman, genl. mgr., constructing Bouquet Canyon Dam, 1,150 ft. long at crest, base 1,200 ft. thick, 210 ft. high, 50 ft. wide at crest, slopes 3 to 1, rock filled, rolled earth, incl. 3,500,000 cu.yd. material, will provide storage for 32,000 acre ft. water, at Spunky Canyon Rd., 10 mi. north of Saugus; excavation and construction work, by own forces under supervision H. L. Jaques, constr. engr., c/o owner. $3,500,000.

Pa., Tamaqua—See "Waterworks."

PIERS AND WHARVES

PROPOSED WORK

N. C., Fayetteville—DOCKS—City modern docks. $65,000 voted. W. O. Huske, c/o Upper Cape Fear Development Co., in charge of operations.

N. Y., Yonkers—DOCK—Westchester Co. Sanitary Sewer Comn., Court House, White Plains, rejected bids 400 lin.ft. dock on piles, on or near Alexander St.. Project in abeyance. Noted Jan. 7.

AIRPORTS

PROPOSED WORK

Mass., Leominster—Fitchburg-Leominster Airport Corp., B. Crocker, 84 Prospect St., Fitchburg, preliminary plans airport, incl. hangars, machine shop, lunch room and offices. $150,000. G. Hadden, 607 5th Ave., New York, engr.

O., Cincinnati—City, City Hall, concrete airplane runways at municipal airport. $150,000. A. J. McDonough, City Hall, engr.

CONTRACTS AWARDED

La., New Orleans—Orleans Levee Bd., Camp and Common Sts., to Caldwell Bros., 816 Howard Ave., 102 x 122 ft. repair shop $35,000, 60 x 127 ft. emergency storage building, $25,900, both stucco, brick, steel, Spanish type, concrete found.; 2 story, 70 x 290 ft. brick administration building, incl. beacon tower, Spanish type, concrete found., steam heating, waiting rooms, etc., $219,493; two 125 x 197 ft. steel hangars, $129,000, all foregoing buildings for Shushan Airport. Grand total $409,393. Noted Mar. 3.

GRAIN ELEVATORS

CONTRACTS AWARDED

O., Akron — GRAIN ELEVATOR — Quaker Oats Co., 102 South Howard St., F. J. Palmer, mgr., grain elevator, 36 rein.-con. storage tanks, 24 ft. in diam., 124 ft. high, etc., on site of present storage tanks which will be razed, Mill and Howard Sts., to James Stewart Corp., 343 South Dearborn St., Chicago, Ill. Est. $275,000.

POWER AND LIGHTING

PROPOSED WORK

Neb., Lincoln — City, T. H. Berg, clk., preliminary plans electric power line from new water plant at Ashland to city limits. $80,000. D. L. Erickson, City Hall, engr.

N. Y., Almond—Empire Gas & Electric Co., Geneva, gas distribution system. Project pending before Pub. Serv. Comn.

N. Y., Binghamton—Binghamton Light, Heat & Power Co., electric distribution line from Binghamton to Vestal. Hearings in progress before Pub. Serv. Comn.

N. Y., Nicholville—Nicholville Home Telephone Co., improving, repairing telephone plant, within three months, also reconstructing distribution lines and outdoor plant, within 5 years. Work ordered by Pub. Serv. Comn.

N. Y., Palatine—New York Power & Light Co., 19-23 2nd St., Troy, electric distribution line. Pub. Serv. Comn. considering project.

CONTRACTS AWARDED

N. Y., Plattsburg—Delaware & Hudson R.R. Co., J. MacMartin, ch. engr., Albany, cable and line changes for grade crossing work, to Western Union Telegraph Co., 40 Broad St., New York. Contractor to do work by day labor.

Man., Neepawa—Manitoba Power Comn., 149 Notre Dame Ave. E., C. B. Hallwood, purch. agt., power line from Minnedosa to Neepawa, to connect with provincial hydro at Minnedosa. $40,500. Owner builds. Noted Mar. 3.

PARKS AND SPORTS

PROPOSED WORK

Ill., Hinsdale—Village bids about latter part of month, 1 story, 27 x 107 ft. brick, limestone bath house, 48 x 82 ft. rein.-con. swimming pool, shower, spring board, diving stand, locker rooms, $100,000. R. H. Zook, 140 South Dearborn St., Chicago, archt.

Nev., Reno—See "Commercial Buildings."

BIDS ASKED

Mass., Boston—Apr. 29, by Park Dpt., 33 Beacon St., field house, McConnell Park, Springdale and Denny Sts., Dorchester.

Mass., Revere—See "Contracts Awarded."

Mo., University City—Park Bd., A. E. Veith, chn., and J. K. Monteith, park comr., new bids about May 4, 150 x 190 ft., rein.-con. swimming pool, 1 story, 80 x 120 ft. concrete filter plant and bathhouse, brick, Heman Park, Olive Blvd. and Creve Coeur street car tracks. $45,000. Excavating work has been done by day labor. Noted Mar. 24.

N. Y., West Haverstraw—May 12, by Dpt. Health, State Office Bldg., Albany, constructing, heating, sanitary, electrical work for recreational building and treatment swimming pools.

Tex., College Station—May 10, by A. & M. College, c/o W. Wipprecht, bus. mgr., materials and sub-contracts, 60 x 100 ft. swimming pool, rein.-con., steel truss. $60,000. Noted Mar. 31, under "Contracts Awarded."

Ont., Midland—May 15, by R. R. Wilson, secy., Midland Arena and Curling Club, installing artificial ice plant, ice area is 110 x 230 ft.

Ont., North Bay—North Bay Arena Assn., L. S. Clark, chn. com., 19 Main St. W., bids about May 1, 128 x 236 ft. hollow tile arena, Fraser and Worthington Sts. $85,000. R. Y. Angus, 8½ Main St. W., archt.

CONTRACTS AWARDED

Conn., Stamford—Shippan Beach Club, G. H. Abbott, general contract 90 x 150 ft. terra cotta beach clubhouse and swimming pool, to A. A. Wright, Holmes Ave., Glenbrook. Est. $75,000. Noted Mar. 31.

Ind., Elwood—Park Bd., municipal swimming pool at Callaway Park, to Anglemeyer Bros., Elwood, $30,000. Noted Mar. 31.

Mass., Boston—Park Dpt., 1 story, brick, concrete locker at Charlestown Heights Playground, Charlestown, to J. B. Dolan, 43 Tremont St., $21,000. Est. $25,000.

Mass., Quincy—M. Pearl, c/o Hendrick & Haywood, archts., 192 Boylston St., Boston, 1 story, 135 x 145 ft., brick, timber open air dance pavilion, concrete found., to J. Glazier, 38 Bellingham St., Chelsea. Est. $25,000 or more. Noted Feb. 4.

Mass., Revere—Moorish Castle, Inc., altering brick, steel amusement, Crescent Beach, separate contracts. $25,000 or more. Krokyn & Browne, 120 Milk St., Boston, engrs.

Mo., University City—See "Bids Asked."

Neb., Omaha—See "Streets and Roads."

N. Y., Queens Village—Madison Square Garden Corp., 307 West 49th St., steel concrete foundation open air sports arena Northern Blvd. and 48th St., to W. P. McDonald Constr. Co., 381 4th Ave., New York. Est. $400,000.

HEATING AND VENTILATING

PROPOSED WORK

Ont., Eastview—See "Commercial Buildings."

BIDS ASKED

N. Y., Creedmoor—Apr. 27, by Dpt. Mental Hygiene, State Office Bldg., Albany, construction work and repairs of service tunnels at Brooklyn State Hospital, Creedmoor Div.

N. Y., Guilderland—May 19, by Dpt. Health, Div. Laboratories, Albany, construction, heating and electrical work for service tunnels.

N. Y., New York—See "Contracts Awarded."

CONTRACTS AWARDED

Neb., Lincoln — University of Nebraska, Dormitory Corp., at office Operating Superintendent, heating and plumbing in Women's Dormitory building, to G. Wentz, 1309 N St., $31,997; elevator, to Otis Elevator Co., 12th and Jackson Sts., Omaha, $2,927; electric fixtures, to Western Electric Supply Co., 2115 O St., $3,336. Grand total $38,260. Noted Mar. 3.

N. Y., New York—New York Steam Co., 280 Madison Ave., underground steam mains extending below 27th St., day labor. To exceed $250,000. **Maturity this summer.** Noted Mar. 31.

N. Y., New York—New York Steam Co., 280 Madison Ave., extending mains into Radio City, day labor and separate contracts. Major item of $2,500,000 budget for 1932. Noted Apr. 7.

UNCLASSIFIED

PROPOSED WORK

Maine—EXCHANGE LINES—New England Telephone & Telegraph Co., 50 Oliver St., Boston, Mass., exchange lines in Rumford, $17,042 appropriated; North Haven and Vinal Haven, $6,205 appropriated; South Portland, $42,027 appropriated; Portland, $44,023 appropriated. Private plans.

Massachusetts — TOLL LINES, etc. — New England Telephone & Telegraph Co., 50 Oliver St., Boston, plans toll lines between Brockton, Whitman and Rockland $10,833 appropriated.

Unclassified (Continued)

between Northampton and **Greenfield $10,530** appropriated, exchange lines in Lowell $5,300 appropriated. Salem **$16,969** appropriated. Westboro **$11,406** appropriated. **Pittsfield $14,666** appropriated. Worcester **$9,107** appropriated; equipment for station in Bridgewater. **$14,550** appropriated; trunk cables between Boston and Hingham, $188,775 appropriated. Private plans.

Mass., Watertown—FIRE ALARM SYSTEM—Town, Fire Dpt., 99 Main St., fire alarm system. $54,000 appropriated.

New Hampshire—EXCHANGE LINES—New England Telephone & Telegraph Co., 50 Oliver St., Boston, Mass., exchange lines in various sections of state. $183,535 appropriated. Private plans.

Rhode Island—EXCHANGE LINES — New England Telephone & Telegraph Co., 50 Oliver St., Boston, exchange lines in various sections of state. $84,052 appropriated. Private plans.

Vermont—EXCHANGE LINES—New England Telephone & Telegraph Co., 50 Oliver St., Boston, Mass., exchange lines in various sections of state. Private plans.

BIDS ASKED

California—GAS PIPE LINE—See "Contracts Awarded."

Calif., San Francisco—COMMUNITY CENTER—Hyman & Appleton, archts., 68 Post St., taking bids 2 story, rein.-con., California St. and Presidio Ave., for Jewish Community Center, 68 Post St. $500,000. Noted Sept. 3.

Mass., Barnstable—COMFORT STATION—Town, F. Scudder, chn. Building Com., taking bids 1 story, brick, concrete comfort station, Craigville Beach. $25,000. L. F. Paine, Masonic Temple Bldg., Hyannis, archt.

N. Y., Bedford Hills—ELEVATORS, etc.—May 17, by Comrs. Dpt. Correction, State Office Bldg., Albany, electric elevators, storehouse and industrial building; bakery oven, machinery, etc., cold storage and bakery building; kitchen equipment, employees home; heating, sanitary and equipment, kitchen equipment and electric dumbwaiter, kitchen and dining room building (State Prison for Women); heating, sanitary and equipment, kitchen equipment, housing for Medical Center, Westfield State Farm; adv. E. N.-R. Apr. 21.

N. Y., Wingdale—BAKERY OVENS, etc.—May 18, by Comrs. Dpt. Mental Hygiene, State Office Bldg., Albany, bakery ovens, machinery, etc. Building 22, and heating, sanitary and equipment, kitchen equipment Building 24, Harlem Valley State Hospital; adv. E. N.-R. Apr. 21.

O., Cleveland—BOILERS, STACK, etc.—May 9, by Bd. Educ., F. G. Hogen, dir., 2 new boilers, coal vault, smoke stack for Albert Bushnell Hart School, 7351 Bway. $45,000. J. B. Hutchinson, c/o owner, engr. Noted Mar. 24.

West Virginia, Virginia and Maryland—TELEPHONE LINES—See "Contracts Awarded."

CONTRACTS AWARDED

California—GAS PIPE LINE—Santa Maria Gas Co., Santa Maria, A. T. Fessler, genl. supt., 21 mi. 8 in. welded steel pipe line for transportation under high pressure of gas from north bank Santa Maria River to Oilport, north of Pismo Beach, day labor, trenching to be done by hand. Furnishing pipe, to Southern Cities Gas Co., 810 South Fowler St., Los Angeles. Total est. $225,000.

N. Y., New York—ELEVATORS—R. H. Macy & Co., Bway., and 34th St., modernization of 7 passenger elevators in department store, to Otis Elevator Co., 11th Ave. and 26th St. Est. $50,000.

N. Y., Wingdale—REFRIGERATION—Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, refrigeration work in kitchen and dining room building, Building 24, Harlem Valley State Hospital, to Arctic Eng. Co., 123 White St., New York, $43,250. Noted Mar. 10.

N. Y., New York—STATION FINISH—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., constructing station finish work for 41st St. connecting passageway for parts Rapid Transit Railroads, to G. Ramm, Inc., 101 Liberty Ave., Brooklyn, $18,963. Noted Mar. 10.

West Virginia, Virginia and Maryland—TELEPHONE LINES—Chesapeake & Potomac Telephone Co., 703 East Grace St., Richmond, telephone lines, replacing 21,000 **poles, 10,000 mi.** open wire lines, 60 **mi. cable, day labor. Est.** $1,000,000.

MATERIALS

PROPOSED WORK

PIPE, etc.—**San Diego, Calif.**—City Council, A. V. Goeddel, city purch. agt., 524 F St., rejected bids Apr. 4, 12,600 ft. 6 in. and 3,600 ft. 4 in. Class B sand cast pipe, 27,600 ft. 2 in., 15,000 ft. 1½ in. and 20,000 ft. 1 in. galvanized iron pipe, miscellaneous fittings. All above material will be purchased in open market.

PATCHING MATERIALS—**East Cleveland, O.**—City, C. A. Carrew, mgr., soon takes bids patching materials for street repairs. $7,500. M. Garnett, City Hall, engr.

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BIDS ASKED

PIPE and FITTINGS—**San Diego, Calif.**—See "Waterworks, under Proposed Work."

LUMBER and PILING—**Albia, Ia.**—Apr. 26, at office Auditor Monroe Co., 107,153 ft. untreated fir lumber, 20,880 ft. creosoted fir lumber, 2,060 ft. creosoted yellow pine piling.

RUBBLE—**Cedar Rapids, Ia.**—See "Streets and Roads."

LUMBER, CULVERT PIPE and STEEL — **Marshalltown, Ia.**—See "Streets and Roads."

CULVERT PIPE, POSTS and ROAD SIGNS—**Montezuma, Ia.**—Apr. 26, at office Auditor Poweshiek Co., 6,800 ft. corrugated culvert pipe, 800 creosoted posts, and road signs.

STRUCTURAL STEEL—**Sioux City, Ia.**—Apr. 25, at office Auditor Woodbury Co., 270,640 lb. structural steel for 18 I-beam bridges.

BITUMINOUS MATERIALS—**Baltimore, Md.**—Apr. 27, by Bd. Awards, furnishing, applying, delivering various bituminous materials. G. Cobb, Municipal Bldg., hys. engr.

CROSS TIES, etc.—**Newark, N. J.**—May 6, at office J. T. Congleton, dir. Dpt. P. Affairs, City Hall, cross ties, tie blocks and switch ties, for portion City Railway; adv. E. N.-R. Apr. 21.

BROKEN STONE SCREENINGS—**St. George, N. Y.**—Apr. 27, by J. A. Lynch, pres. Richmond Boro, Boro Hall, 2,000 cu.yd. broken stone screenings, to asphalt plant of Bureau Hys.; 4,500 cu.yd. 1½ in. broken stone and 1,500 cu.yd. ⅜ in. broken stone chips in Dist. 2; 4,500 cu.yd. 1½ in. broken stone and 1,500 cu.yd. ⅜ in. broken stone chips in Dist. 3.

SANDSTONE CURBING, etc.—**Cleveland, O.**—Apr. 22, by City, 3,500 ft. 5 and 7 in. sandstone curb.; 5,000 ft. 5 in. Medina curb; 10,000 ft. 5, 8 and 10 in. granite curb. Former bids rejected.

PIPE, FITTINGS, etc.—**Corapolis, Pa.**—Boro Council taking bids 62,000 lb. 8 in. Class B c.i. water pipe, 2,000 lb. 8 in. Class B fittings to meet specifications of American Water Works Assn.

CEMENT, GRAVEL, etc.—**Johnstown, Pa.**—See "Sewers."

HIGHWAY SIGNS—**Virginia**—May 3, at office State Hy. Dpt., Richmond, 1,105 white crystal button type reflector highway signs; adv. E. N.-R. Apr. 21.

CONTRACTS AWARDED

PIPE—**California**—See "Unclassified."

CAST IRON PIPE—**Lynwood, Calif.**—City, 4,000 ft. 6 in., 700 ft. 8 in., 900 ft. 12 in. Class 150 c.i. pipe, to Utilities Equipment Co., 110 North Alameda St., Los Angeles, $3,026. Noted Dec. 10, under "Waterworks."

LUMBER, etc.—**Bedford, Ia.**—Taylor Co., 140,000 ft. b.m. standard sawn Douglas fir bridge lumber, 2,500 ft. red cedar piling, to Nebraska Bridge & Supply & Lumber Co., 448 Peters Trust Bldg., Omaha, Neb., $5,429.

CULVERT PIPE, STEEL, etc.—**Primghar, Ia.**—O'Brien Co., I. R. Isenberg, aud., 28 items box culverts, extensions, to Forgie & Groth, Sioux Center, $5,736; 292 ft. 18 in. and 810 ft. 24 in. rein.-con. culvert pipe, to Sibley Cement Co., Sibley, $1,740; reinforcing and structural steel for I-beam bridge, to Des Moines Steel Co., 421 Southwest 4th St., Des Moines, $3,392. Grand total $10,868.

ASPHALTIC ROAD OIL, etc.—**Boston, Mass.**—City, P. A. Chapman, supt. Supply Dpt. 300,000 gal. 45% asphaltic road oil, and 1,200 tons road asphalt, to Trimount Oil Co., 1840 Parkway, Everett, at $0.0517 per gal. and $15.17 per ton respectively; asphaltic cement, as specified to Alden Speare's Sons Co., 156 6th St., Cambridge, at $15 per ton. Noted Mar. 24.

BATTERY MATERIAL—**Boston, Mass.**—Dpt. School Buildings, battery material and other electrical supplies as specified, to Graybar Electric Co., Inc., 287 Columbus Ave. $6,214. Noted Mar. 24.

LEAD PIPE—**Boston, Mass.**—City, P. A. Chapman, supt. Supply Dpt., lead pipe as specified, to National Boston Lead Co., 800 **Albany** St., Roxbury, $5,363.

SEWER PIPE—**Boston, Mass.**—Supply Dpt., P. A. Chapman, supt., 200,000 sewer bricks, to J. P. O'Connell Co., 110 Forsyth St., $2,800. Noted Mar. 24.

PIPE—**Anoka, Minn.**—City, 2,650 ft. 4 and 6 in. c.i. pipe, hydrants and specials, to Amer. Cast Iron Pipe Co., 712 Plymouth Bldg., Minneapolis, $1,724. Noted Mar. 31.

CHLORINE—**Minneapolis, Minn.**—F. S. Gram, **city** purch. agt., 240,000 lb. liquid chlorine, to McKesson-Minneapolis Drug Co., 24 North 3rd St., at $2.44 per cwt. Total $5,856.

BRICK—**Minneapolis, Minn.**—F. S. Gram, city **purch.** agt., City Hall, 21,000 interior and 275,000 exterior face brick, 17,000 salt-glazed **brick**, vitr. brick and 1,600 corners, **meters, etc.,** to Twin City Brick Co., 529 2nd Ave. S., and to Wunder-Klein-Donohue Co., 319 2nd Ave. S. Noted Mar. 31.

ROAD OIL, etc.—**St. Louis, Mo.**—City, N. L. Meston, supply comr., 900,000 gal. more or less road oil ordered by Street Dpt. as needed during year, to Shell Petroleum Corp., Shell Bldg., at 2.3c. per gal.; tarvia, asphalt cement or equal Grades B and X and cutback asphalt, to Barrett Co., Levee and Convent Sts., at 10.21c. and 13.75c. per gal., respectively; 8,000 tons more or less binder chatt, to be ordered during year by Street Dpt., to McDonald Co., St. Louis, at $1.46 per ton; 8,000 tons more or less binder stone to Union Quarry Co., 4687 Natural Bridge Ave., St. Louis, at $1.15 per ton; constructing Sect. A-4, Maline Creek Public Sewer, to S. Kraus Co., 645 Edmund St., $8,100.

ROAD OIL—**Clifton, N. J.**—Bd. City Council, **City Hall, 50,000 gal. dust oil and stone** for **Road Dpt.,** to **Union Building & Constr.** Co., **150 Prospect St., Passaic, $8,828.** Est. **$5,000. Noted Mar. 31.**

ROAD TAR, etc.—**Flemington, N. J.**—Hunterdon Co., to Kapper Products Co., Kearny, 120,511 gal. road tar $17,835, 27,800 gal. patching tar $4,915; to Tar Asphalt Service, Inc., New Brunswick, 7,920 gal. asphalt $808; to Thompson & Drumm, Whitehouse, 5,653 gal. dustless screenings $11,192; to Lambertville Trap Rock Co., Lambertville, 2,084 tons ⅜ and ½ in. stone at $0.90 per ton, 415 tons ¾ in. $0.85, 450 tons 1½ in. $0.85, 200 tons 2½ in. $0.75.

TIES—**New York, N. Y.**—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., treated ties, to Eppinger & Russell, 11 Park Pl., $7,688. Noted Mar. 31.

PAVING BRICK—**Cleveland, O.**—City, A. J. Preusser, clk., to Euclid Shale Brick Co., 1470 East 12th St., furnishing 2 million 5 in. brick at $46.70 per 1,000, delivered, and $42.10 per 1,000 called for, 1 million one hundred fifty thousand 4 in. brick $37 per 1,000 delivered, and $32.73 per 1,000 called for. Furnishing 10,000 sq.yd. Medina paving block to Graunalt Products Co., 2709 East 93rd St., 6 in. at $2.545 per sq.yd. and to W. P. Hurst Inc., Hanna Bldg., 5 in. at $2.39 per sq.yd. Noted Mar. 10.

PIPE, SAND, etc.—**Galesburg, Pa.**—State Road Comn. Knox Co., Hy. Dpt., to McGrath Sand & Gravel Co., Lincoln, 400 tons sand f.o.b. Appleton at $1.56 per ton, 130 tons f.o.b. Yates City, $1.42, 310 tons gravel f.o.b. Appleton at $1.46, 220 tons gravel f.o.b. $1.66; to Rici & Woods, Tiskilwa, 1,218 lin.ft. 12 in., 574 lin.ft. 15 in. and 110 lin.ft. 18 in. rein.-con. culvert pipe; to Long Bell Lumber Co., 1645 Henn St., Minneapolis, Minn., 2,424 lin.ft. creosoted piling, 13.69 m.b.m. creosoted lumber; to Clinton Bridge & Iron Wks., Clinton, 46,060 lb. reinforcing steel, 71,890 lb. structural steel, 1,900 lb. W. I. rods, $2,960.

STRUCTURAL STEEL—**Phila., Pa.** — See "Streets and Roads."

PIPE—**Dallas, Tex.**—City, c/o E. Goforth, secy., 20,000 ft. 6 in., 5,000 ft. 8 in., 2,000 ft. 10 in., 500 ft. 12 in. and 150 ft. 15 in. vitr. tile pipe, wyes, curves and stoppers, to W. S. Dickey Clay Mfg. Co., Texarkana, $4,367. Noted Mar. 24.

EQUIPMENT

PROPOSED WORK

PUMP, etc.—**Topeka, Kan.**—City soon takes bids 4,000 g.p.m. sewage pump, also moving 2 small pumps to new location. W. E. Baldry, City Hall, engr.

OFFICE EQUIPMENT—**Boston, Mass.**—New England Telephone & Telegraph Co., 50 Oliver St., plans central office equipment. $92,714 appropriated.

MOTOR PATROL—**Fairmont, Minn.**—Martin Co. rejected bids Apr. 6, one motor patrol. C. N. Krosch, Fairmont, co. hy. engr. Noted Mar. 21.

TRUCK—**Faribault, Minn.**—Rice Co. soon takes bids truck for county poor farm. A. W. Luecke, co. aud.

WATER WHEELS—**Granite Falls, Minn.**—City, O. P. Berg, clk., altering municipal power plant, incl. water wheels. $25,000. G. M. Orr & Co., 408 Baker Bldg., Minneapolis, engrs.

TRACTOR—**Nashwauk, Minn.**—Town, X. E. Luiten, clk., rejected bids Mar. 26, 50 to 60 hp. crawler-type tractor.

SIGNAL EQUIPMENT—**New York**—Lehigh Valley R.R. Co., G. T. Hand, ch. engr., 143 Liberty St., New York, purchasing automatic flashing signals for Ellicott St., Batavia, and other locations.

SIGNAL EQUIPMENT—**New York, N. Y.**—Long Island R.R. Co., A. C. Watson, ch. engr., Pennsylvania Sta., New York, purchasing, installing automatic flashing signals at Glen Head and other highway crossings.

BIDS ASKED

HYDRANT PARTS—**Chicago, Ill.**—Apr. 26, by Bd. P. Wks., City Hall, furnishing, delivering quantity of hydrant parts at Pipe Yard "B," 3150 South Sacramento Ave. M. Reynolds, city engr.

GATE VALVES—**Boston, Mass.**—Apr. 25, by Supply Dpt., P. A. Chapman, supt., gate valves to Water Service as specified. $5,000.

TRACTOR—**Albert Lea, Minn.**—May 3, by A. C. Hartz, aud. Freeborn Co., crawler-type tractor.

GRADER, etc.—**Brainerd, Minn.**—May 7, by F. M. Hagberg, aud. Crow Wing Co., 1 motor-powered grader, either pull or push type, also one ½ or ¾ in. ton truck, delivery type.

GRADER—**Fairmont, Minn.**—May 3, by W. N. Canfield, aud. Martin Co., one 12 ft. blade trailer of 5,000 weight. C. N. Krosch, Fairmont, co. hy. engr.

GASOLINE PUMPS, etc.—**St. Louis, Mo.**—J. L. Cohen, 1313 Syndicate Trust Bldg., 915 Olive St., in market gasoline pumps, visible and meter; gas buggies, roller car, jacks.

ELECTRIC METERS—**Cleveland, O.**—Apr. 29, by City, A. R. Bruggeman, dir. P. Utilities,

Equipment (Continued)

electric meters, instrument transformers, condenser tubes and ferrules.

CHECK VALVES, etc.—**Columbus, O.**—Apr. 28, by Bd. Purchase. D. C. Westenhaver, secy., City Hall, five 4 in. twelve 6 in., five 8 in., three 12 in., two 16 in. check valves for Waterworks Dept.

HOLES, HANDRAILING, etc.—**Pittsburgh, Pa.**—See "Bridges."

FORGE, WOODWORKING and MACHINES, etc.—**Nashville, Tenn.**—Bd. Comrs. Agriculture and Industrial College, in market forge, woodworking and manual training machines for college building.

TRACTORS—**Hillsboro, Tex.**—Apr. 25, by Hill Co., c/o G. M. Mann, aud., 1 or more 25 to 50 hp. crawler type tractors.

CONTRACTS AWARDED

GATE VALVES—**Los Angeles, Calif.**—City, gate valves under Spec. 2726, to Rensselaer Valve Co., 417 South Hill St., $2,043.

GENERATOR UNIT—**St. Paul, Minn.**—State Building Comn., State Capitol, furnishing, installing generator unit at State Capitol power plant, to A. R. Robertson Co., 1603 University Ave., $34,015. Noted Mar. 24.

PUMP and MOTOR—**Meadville, Pa.**—City, H. Ellsworth, supt. Light and Water Dpt., Pump and Motor, to Ingersoll Rand Co., Meadville, $1,115.

PRESSURE FILTER—**Crystal Beach, Ont.**—Village, supplying 1 pressure filter with valves and fittings and one 750 (Imperial) gal. centrifugal pump with 60 hp. motor, to Water Equipment Co., 11 Hayden St., Toronto. Est. $5,000.

FIRE HYDRANTS, etc.—**Ottawa, Ont.**—City, furnishing 15 fire hydrants and special pipe castings, to Thos. Lauson & Sons Ltd., $1,012 and at $5.70 cwt. respectively; 300 service posts, to Victoria Foundries Co. Ltd., 44 Booth St., $825; 10,000 pig lead, to Betcherman Iron & Metal Co., MacKay St., $435; 23,500 lb. lead pipe, to Crane Ltd., 142 Bank St., $1,327.

FOREIGN

Cuba, Santiago—Dpt. P. Wks., A. Onetti, secy., plans in progress rebuilding government buildings damaged by earthquake. To exceed $150,000. Funds available.

Cuba, Santiago—Oriente Province, R. Barcelo, gov. Santiago, bids in Summer or later, public works, incl. highways to replace earthquake damage. $1,000,000 appropriated by Cuban Government.

France, Lille—Municipality of Lille technical plans by P. D. Nelson, 98 Auguste, Blangui, Paris, 28 to 36 story charity medical center, on 77 acres. **Maturity indefinite.**

U. S. S. R., Cheliabnisk—Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, plant to manufacture powdered and enamel paints, oil varnishes and dryers, by technical aid contracts. To exceed $1,000,000.

U. S. S. R., Kramatorsk—Soviet Govt., c/o Armtorg Trading Corp., 261 5th Ave., New York, plans in progress new city near here. $7,500,000.

U. S. S. R., Saransk—Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, can manufacturing plant, (51 cans annual capacity) at Saransk in Middle Ural Region, by day labor and technical aid contracts.

Commercial Buildings

PROPOSED WORK

Calif., San Francisco—W. C. Ambrose, archt., 605 Market St., soon takes bids about 6 story, basement, steel, concrete apartment, 21st and Bartlett Sts., for F. W. Hanchett, 34 Highland St. $150,000.

Calif., Santa Rosa—United Mausoleum Co., c/o F. H. Slocombe, archt., 3830 Harrison St., Piedmont, (1st unit) rein.-con. mausoleum, $50,000. Total $150,000.

Conn., Bridgeport—Klein Memorial Auditorium, G. W. Wheeler, chn. Bd. Trustees, memorial auditorium. $500,000. Architect not appointed.

Conn., New Haven — Municipality bids in October or later, general contract city hall, auditorium and police station. E. Swartout, 10 East 40th St., New York, engr. Noted Jan. 21.

Conn., West Haven (br. New Haven)—State, Armory Comn., plans by Fletcher-Thompson, Inc., 1336 Fairfield Ave., Bridgeport, 1 and 2 story, basement, 140 x 175 ft. and 2 story, 80 x 125 ft., brick armory, Main St. and Wagner Pl. $150,000. Noted Jan. 28.

Me., Rumford—Rumford Community Hospital, Franklin St., sketches by Coolidge & Carlson, 89 State St., Boston, Mass., nurses home, Franklin St. $150,000.

Md., Annapolis—State, A. C. Ritchie, gov., plans by L. H Fowler, 347 North Charles St., 1 story brick, granite, marble memorial hall of records, St. John's College Campus. $200,000. Engineer not appointed.

Md., Baltimore—Mayor and City Council, City Hall, plans by B. Evander, 20 East Lexington St., 2 story, basement, 17 room, brick addition to school, East Baltimore, $200,000; plans by W. W. Emmart, Union Trust Bldg., 12 room brick addition to School 56, Woodberry Ave., $175,000.

Mass., Boston—Albanian Church, South Boston, church, Bway. and D St., South Boston. $150,000 or more. Architect not appointed.

Mass., Braintree—Town, D. E. Fisher, supt. schools, Junior High School, South Braintree Sect. To exceed $150,000. Architect not appointed.

Mass., Cambridge—New England Telephone & Telegraph Co., 50 Oliver St., Boston, plans by Densmore, LeClear & Robbins, Park Sq. Bldg., Boston, brick telephone exchange, Ware St. To exceed $150,000. Noted Feb. 26.

Mass., Medford—City, Mayor's Office, City Hall, sketches by M. A. Dyer, 1 Beacon St., Boston, fire station, in Wellington Sect.; sketches by F. I. Cooper Corp., 47 Winter St., Boston, fire station, Fulton St., Fulton Heights. $150,000. Noted Mar. 24.

Mass., Somerville—C. F. Hurley, 276 Commonwealth Ave., Boston, rebuilding store, office, Union Sq. $150,000 or more. Architect not appointed.

Mass., Springfield — Springfield National Bank, E. J. Wheeler, pres., plans by McClintock & Craig, 458 Bridge St., bank, store and office, Main St. $150,000. Noted Mar. 24.

Mo., St. Louis—Bd. Educ., 911 Locust St., bids in May, 3 story, basement, rein.-con., brick, stone, high school on 400 x 500 ft. site, Kingshighway at Arsenal St. $900,000. E. T. Friton, c/o owner, bldg. comr. Noted Dec. 10.

Neb., Omaha—St. Pauls Methodist Episcopal Church, B. O. Lyle, 2910 North 63rd St., sketches completed by H. C. Peterson, 206 Bankers Reserve Life Bldg., and takes bids during summer 1 story, basement, 44 x 122 ft. church and 2 story, basement, 42 x 90 ft. educational unit, 54th and Corby Sts. $150,000. Noted Oct. 16.

N. J., Bloomfield—Sacred Heart Roman Catholic Church, 76 Broad St., rebuilding 2 story, basement, brick, steel, stone church, Liberty and Broad Sts. $150,000. **Maturity soon.** Architect not appointed.

N. J., Cranford—Cranford Methodist Episcopal Church, G. L. Griffith, chn. Building Com., 117 Severn Court, 2 story, basement, brick, steel church, Walnut and Lincoln Aves. $150,000. Architect not appointed.

N. J., Cranford—Bd. Educ., J. Cloud, pres. and chn. Building Com., Holly St., 2 story, basement, brick, steel, stone high school addition, 210 Main St. $150,000. **Maturity indefinite.** Architect not appointed.

N. J., Jersey City—Owner, c/o C. Shilowitz, archt., 26 Journal Sq., sketches 3 story, basement, brick, steel store, office, Journal Sq. $150,000.

N. J., Jersey City—Bd. Freeholders Hudson Co., Court House, revised sketches by C. H. Ziegler, 26 Journal Sq., 24 story, basement, brick, steel nurses home. $1,250,000. Noted Feb. 4.

N. J., Long Branch—Y. M. C. A., K. F. Wickham, exec. secy., brick, steel Y. M. C. A. building. $150,000 **Maturity indefinite.** Architect not appointed.

N. J., Menlo Park—Edison Parkway Memorial Comn., J. F. Deegan, chn., bids in November or later, Edison Memorial, 2 story, marble, limestone, steel. $1,000,000. J. B. Peterkin, 285 Madison Ave., New York, and H. A. Kelly, 921 Bergen Ave., Jersey City, archts. Noted Feb. 25.

N. J., New Brunswick—A. Merchant, archt., 1 Elm Row, rejected bids 2 story, basement, 75 x 115 ft., brick, steel club addition, Livingston Ave., for B. P. O. E., 324, 40 Livingston Ave. $150,000. **Maturity indefinite.** Noted Feb. 25.

N. J., Passaic—M. L. Weber, archt., Hollywood Ave., Massapequa, N. Y., soon lets general contract, 3 story, basement, brick, steel convent, Quincy St. and Parker Ave., for St. Joseph's Roman Catholic Church. L. Szorc, pastor, 5 Parker Ave. $150,000.

N. J., Passaic—Dave Zaritzky, 695 Main Ave., sketches by Preiskel & Skvarla, 629 Main Ave., 3 story, basement, store, office, restaurant, Main Ave., Garden and Henry Sts. $150,000.

N. J., Passaic—Preiskel & Skvarla, archts., 129 Main Ave., rejected bids 3 story, basement apartment, store, garage, Main Ave. and Westervelt Pl., for J. Maczko, 283 Main Ave., $150,000. Noted Dec. 24.

N. J., Somerville—B. P. O. E., West End Ave., Somerville, and Korf, Poggi & Bragdon, archts., 275 Morris Ave., Elizabeth, bids in May on revised plans altering and constructing 1 and 2 story, basement auditorium addition, brick, steel West End Ave. $150,000. Noted Nov. 30.

N. Y., Farmingdale—Bd. Supervs. Nassau Co., Court House, authorized $250,000 bonds for wing to Nassau County Tuberculosis Sanitarium.

N. Y., Mineola—Bd. Supervs. Nassau Co., Court House, authorized $1,660,000 bonds Meadowbrook Hospital, at East Meadow.

N. Y., Great Neck—Temple Beth El temple, school and gymnasium, Nirvena Gardens. To exceed $150,000.

N. Y., Huntington—Huntington Hospital, c/o I. R. Swezey, Huntington, bids about August, general contract hospital wing. To exceed $500,000. Crow, Lewis & Wick, 200 5th Ave., New York, archt. Noted Apr. 7.

N. Y., New York—Corporation, c/o L. C. Brown, 347 Madison Ave., plans by J. B. Peterkin & T. M. Bell, 285 Madison Ave., 16 story, 40 x 100 ft. furniture display room, office, 63 East 57th St. To exceed $150,000.

Nev., Reno—Chicago, Los Angeles & New York Capitalists, plans by A. G. Bailey, 410 Hillstreet Bldg., Los Angeles, Calif., 3 story, basement, hotel, incl. swimming pool, golf course, near Highland Reservoir. $3,000,000.

N. C., Durham—Durham Loan & Trust Co., G. W. Hill, pres., West Main and Market Sts., plans by W. Carr, Durham, 5 story office building addition.

Okla., Oklahoma City—D. Schonwald, Mid-West Bldg., sketches 6 story, basement, 50 x 140 ft., brick office and store building, plain found., 1st St. $150,000. Architect not appointed.

Ore., Portland—W. E. Kelley, archt., Oregon Bldg., soon takes bids 10 story, basement, 100 x 100 ft. hospital, East 9th and Pacific Sts.; for Corne & Goodwin Agts., Guardian Bldg. $225,000. Noted Aug. 12.

Ore., Portland—Loyal Corp., Los Angeles, Calif., and Portland, plans by C. W. Ertz & Co., contg. archts., two 2 story, 80 x 140 ft. and 50 x 90 ft. club house, 12th and Irving

Pa., Grove City—Mercer Co. Memorial Park Assn., c/o G. Peranteau, plans in progress and soon takes bids mausoleum, granite, marble, bronze trim, 260 crypt, chapel, Sandy Lake Rd., near here. $165,000. J. E. Morck, Mausoleum Co., Clyde, O., designer.

Pa., Elmhurst—F. F. Durang, archt., 110 West Dudley Ave., Westfield, did not take bids Apr. 15, general contract 3 story, basement, 50 x 100 ft., brick, steel mother house, plain found., for Poor Sisters of Jesus Crucified and The Sorrowful Mother. $200,000. Project postponed till October or later. Noted Feb. 25.

Pa., Pittsburgh—L. Wolfe, archt., Grant Bldg., soon lets contract 1 story, T-shaped, 78 x 124 ft., stone, frame dining room, kitchen, reception room and library, 26 x 51 ft. sleeping cabin, on 735 acre plot, Fresh Air Farm on Perry Hy., 20 mi. from here, for Methodist Episcopal Church Union, 7th and Smithfield Sts., A. Corcoran, supt. Noted Mar. 24.

R. I., Kingston—Beta Phi Fraternity, R. C. Bates, 19 Barnes St., Providence, soon takes bids 3 story, basement, brick, stone fraternity house, plain found. $150,000. E. E. Cull, 73 Westminster St., Providence, archt. Noted Mar. 10.

R. I., Providence—City Director Public Aid, plans hospital. $150,000 or more. Site not selected. Architect not appointed.

Vt., Bellows Falls—Bellows Falls Lodge No. 23, IOOF, E. L. Walker and C. H. Crandall, archts., Randolph, soon lets contract 2 story, basement, 90 x 100 ft., brick, steel fraternity and store building, plain found. $150,000. Noted Mar. 31.

Wash., Seattle—May 9, by Bd. Regents University of Washington, Henry Bldg., general contract 4 story, basement, 60 x 180 ft., brick law school with 4 story, 40 x 50 ft. wing, campus. $350,000. A. H. Albertson, Northern Life Tower, archt. Noted Mar. 17.

Wis., Milwaukee—Bd. School Directors, 10th St. and Highland Ave., F. M. Harbach, secy., plans Story School, 2 story, basement, brick, steel, North 37th St. $400,000. G. Wiley, Milwaukee, engr. **Maturity in June.**

Ont., Eastview—Convent of Les Filles de la Lagesse (Sisters of Wisdom), new addition and annex to convent, on south side Montreal Rd. $125,000; also new heating plant for whole convent. C. Brodeur, Bank National Bldg., Rideau St., Ottawa, archt.

Ont., Hamilton — Mackie & Montague, 42 James St. S., 1 and 2 story, basement, 54 x 133 ft., brick, steel, stone, concrete theatre, 900 seating capacity. $150,000. S. McPhie, 43 James St. S., archt.

Ont., Ottawa—Separate School Bd. plans by L. Leblanc, 45 Rideau St., 2 or 3 story, basement, brick, steel, stone school. $150,000-$175,000.

Ont., Toronto — Separate School Bd., 477 Jarvis St., plans by J. M. Cowan, 200 St. Clarens Ave., De La Salle College, 2 or 3 story, basement, stone construction 300 ft. long with wings, on Avenue Rd. $500,000.

BIDS ASKED

Conn., Watertown — May 4, by St. John's Roman Catholic Parish, J. C. Tuelings, pastor, 1 story, basement, limestone church, Main St. $150,000. Cram & Ferguson, 248 Boylston St., Boston, Mass., archts. Noted Apr. 14.

Ind., Anderson—Apr. 30 (extended date), by School Comrs., Washington Grade School, 2 story, basement, rein.-con., steel, stone, Columbus Ave. $150,000. E. F. Miller, 514 Anderson Bank Bldg., archt. Noted Mar. 24.

Mass., Boston—May 4, by City, Dpt. School Buildings, 2 story, basement, brick, stone, steel elementary school, plain found., Prescott Emerson Dist., East Boston. $150,000. Desmond & Lord, 1 Beacon St., archts. Noted Mar. 3.

Md., Baltimore—May 4, by Bd. Awards, 7 story, basement, brick, concrete, steel, stone general hospital building, 2,000,000 cu.ft. floor space, 4940 Eastern Ave. $1,200,000. Palmer & Lamdin, 513 North Charles St., archts. Van Rensselaer Saxe, 217 North Calvert St., engr.

Mass., Cambridge—D. Rame, c/o P. J. Brown, archt., 51 Cornhill, Boston, taking bids 4 story,

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Commercial Buildings (Continued)

basement, 75 x 125 ft., brick, stone, steel apartment, plain found., Ellery St. $150,000.

N. H., Durham—D. Williamson, c/o A. Perreton, archt., c/o University of New Hampshire, taking bids 3 and 1 story, basement, brick, concrete apartment and garage, plain founds., Madbury Rd. $150,000.

N. H., New London—Apr. 28, by Colby Junior College, H. L. Sawyer, pres., and Wells & Hudson, archts, Hanover, 3 story, basement, brick dormitory, plain found. $150,000. Noted Mar. 31.

N. J., Darlington—Apr. 25, by Fanning & Shaw, archts., 49 Ward St., Paterson, general contract 1 story, basement, 80 x 80 ft. brick, steel church, rectory, Darlington Ave. and Valley Rd., for Immeculate Conception Church, T. H. McLoughlin, pastor. $150,000.

N. Y., Flushing—See "Contracts Awarded."

N. J., Jersey City—Bd. Freeholders Hudson Co., Court House, bids about June 10, 16 story, basement, 200 x 225 ft., brick, steel Hall of Records building, adjoining court house. $2,000,000. J. T. Rowland, Jr., 30 Journal Sq., archt. Noted Feb. 18.

N. J., Jersey City—Medical Arts Building Co., B. Gorlin, pres., Concourse Bldg., bids about May 2, separate contracts 4 story, basement, 100 x 160 ft., brick, stone, steel medical building, Hudson Blvd. and Fairmount Ave. $250,000. C. Shilowitz, 26 Journal Sq., archt. Noted Mar. 24.

N. J., Kearny—C. G. Jones, archt., 133 Academy St., Belleville, bids about May 9, general contract 2 story, basement, tower, brick, steel church and educational building, Kearny Ave. and Liberty St., Grace Methodist Episcopal Church, F. Mead, pastor, 384 Kearny Ave., for $150,000.

N. J., Newark—E. H. Fougner, archt., 197 Market St., taking bids general contract altering 6 story, basement, brick, stone, steel store, office, 197 Market St., for A. J. Gumersell, 390 Mount Prospect Ave. Est. $150,000.

N. J., Passaic—Polish Peoples Home, 1 Monroe St., and J. T. Camlet, archt., 26 Piaget Ave., Clifton, bids about May, general contract altering and constructing 2 story, basement, brick, stone, steel home addition. $150,000. Noted Feb. 25.

N. J., Spring Lake — See "Contracts Awarded."

N. Y., Brooklyn—Apr. 27, by Brooklyn and Queens Y.M.C.A., 55 Hanson Pl., general contract 5 story Y.M.C.A. building, Bedford Ave. and Monroe St. $150,000. J. F. Jackson, 137 East 45th St., New York, archt.

N. Y., Flushing—See "Contracts Awarded."

N. Y., Kings Park—May 18, by Dpt. Mental Hygiene, State Office Bldg., constructing Dining and Kitchen Building at Kings Park State Hospital.

N. Y., Long Beach—Apr. 27, by Bd. Educ., school addition, and extension. $200,000. Smith & Ward, 100 East 42nd St., New York, archts. Noted Dec. 10.

N. Y., Massapequa Center—See "Contracts Awarded."

N. J., Mount Bethel—Apr. 23, by Bd. Educ., Warren Twp., J. F. Mundy, pres., 2 story, basement, 128 x 128 ft., brick, steel school. $150,000. Fischer & Brown, 102 North Ave., Plainfield, archts. Noted Apr. 14.

N. Y., Oakhaven—See "Contracts Awarded."

N. Y., Saratoga Springs—May 26 (extended date), by P. B. Noyes, chn. Saratoga Comn., 376 Bway., drink hall, Saratoga Springs. Noted Mar. 24.

N. Y., St. Albans—See "Contracts Awarded."

O., Springfield—Owner, c/o J. A. Tuck, archt., Hickox Bldg., takes bids about May 9, 1 story, 99 x 172 ft., brick, marble theatre, 2,000 seating capacity. $300,000.

Ore., Portland—May 10, by School Bd., City Hall, 2 story, basement, brick, steel school, in Irvington. $270,000. G. F. Jones, City Hall, archt. Noted Feb. 25.

Ore., Tillamook—Tillamook Co. bids about May 15, general contract 2 story, basement, 92 x 211 ft. brick, steel court house, Court House Sq. $175,000. Lawrence Holford, Allyn & Beacon, Failing Bldg., Portland, archt. Noted Feb. 18.

Pa., Scranton—May 9, by Secretary Scranton School Dist., Junior High School, 3 story, brick, steel, concrete found. $1,000,000. T. Williams, Scranton Life Bldg., archt. and engr. Noted Feb. 25.

R. I., Providence—A. H. Johnson, 185 Congress St., taking bids 4 story, basement, 75 x 100 ft., brick apartment, plain found., Hollywood Rd. and Dexter St. $150,000. Private plans.

Ont., Windsor—May 17, by N. Desjardins, secy. Dpt. P. Wks., Ottawa, for Federal Building. $400,000. Chief Architect, Dpt. P. Wks., Ottawa, and Sheppard & Massons, Equity Chambers, archts.

CONTRACTS AWARDED

Mass., Boston—City, R. G. White Fund, City Hall Health Unit 4, 2 story, basement, brick, steel, plain found., to J. B. Dolan, 43 Tremont St. Est. $150,000. Noted Mar. 24.

Mass., Gloucester—Addison Gilbert Hospital, 298 Washington St., superstructure 3 story, basement, brick hospital annex, to R. E. Runnels Constr. Co., 191 Main St. Est. $150,000. Noted Apr. 21.

Mass., Groton—Groton School, E. Peabody, headmaster and H. D. Chandler, archts, 75 Newbury St., Boston, 3 story, 50 x 100 ft., brick school addition, to W. J. Handley Co., 280 Main St., Fitchburg. Est. $150,000. Noted Mar. 24.

Mass., Norfolk—Commonwealth of Massachusetts, Dpt. Correction, State House, Boston, 3 story, basement, 56 x 155 ft., brick, rein.-con. hospital at Norfolk Prison Colony, to M. Spinelli & Sons, 333 Washington St., Boston, $171,000. Noted Mar. 31.

Mass., Somerville (br. Boston)—City, J. J. Murphy, mayor, 3 and 1 story, basement, brick, stone, concrete, steel police station and garage, plain founds., to W. J. Sullivan, 114 Mass. Ave., Arlington. Est. $250,000. Noted Apr. 7.

Mo., Kansas City — Kansas City Terminal Railway Co., J. V. Hanna, ch. engr., Union Sta., sub-basement, 45 x 300 ft., concrete, steel mail handling room annex, to Swenson Constr. Co., Shubert Theatre Bldg.; excavation sublet to W. D. Boyle Constr. Co., 7601 Myrtle St. Est. $500,000. Noted Mar. 17.

N. J., Jersey City—Haller Bros., 3548 Blvd., general contract 3 story, basement, brick, steel apartment, 3687-89 Hudson Blvd., to J. Natterer, 16 Carsten Ave., North Bergen. $150,000. Noted Jan. 21.

N. J., Oceanport—Bd. Educ., Oceanport, general contract 2 story, basement, brick, steel, stone school addition, to P. Ricciardi Constr. Co., 348 North 6th St., Newark. Est. $150,000. Noted Mar 10.

N. J., Princeton—Princeton University, E. A. Macmillan, supt., general contract Joline Hall Dormitory, 3 story, basement, 35 x 135 ft., brick, stone, steel, to Matthews Constr. Co., Alexander St. Est. $150,000. Noted Mar. 17.

N. J., Rockaway River—Lake Hiawatha Co., 9 Clinton St., Newark, group 1 story cottages and log cabins, lake development, Lake Hiawatha, separate contracts. $200,000. First units in course of construction, incl. clubhouse.

N. J., Spring Lake—H. B. Stubbs, owner Warren Hotel, Mercer Ave., altering 4 story, basement, brick, steel hotel, Mercer Ave., day labor and separate contracts. $150,000. P. V. Stout, 420 Lexington Ave., New York, archt. Noted Feb. 4.

N. Y., Brooklyn—Cemetery Holy Cross, 75 Greene Ave., superstructure mausoleum, Holy Cross Cemetery and Snyder Ave., to Kenny Gilzean Constr. Co., 20 Vesy St., New York. Est. $190,000. Noted Jan. 28.

N. Y., Flushing—Callan Homes, 168-19 29th Ave., 2 groups 2 story, brick dwellings, Bayside Ave., separate contracts. To exceed $200,000.

N. Y., Flushing—Raleigh Homes, 166th St. and Bayside Ave., group 2 story, 18 x 52 ft. brick dwellings, 27th Ave. and East 166th St., separate contracts. $200,000. E. Meyer, c/o owner, archt.

N. Y., Massapequa Center—McGoldrick Realty Co., 225 West 34th St., group 2 story, frame, brick residences, day labor and separate contracts. To exceed $150,000.

N. Y., Oakhaven—Gleeson & Dolan, 152 West 42nd St., New York, residential development 150 acre tract incl. group summer cottages, Merrick Rd., separate contracts. To exceed $200,000.

N. Y., St. Albans—F. Vitale, 7035 69th St., Glendale, store and apartment, Foch Blvd. and 221st St., separate contracts. $200,000. A. P. Sorice, Jr., St. Albans, archt. Noted Mar. 31.

Pa., Warren—Warren State Hospital, c/o H. W. Mitchell, supt., general contract 2½ story, basement, dining hall, 2 story 53 x 83 ft. steel, stone laundry at State Hospital, to Wilson Constr. Co., Jamestown, N. Y., $168,270; subcontract for heating and plumbing, to W. M. Clark & Co., New Castle, $21,590 and $12,940 respectively. Grand total $202,800. Noted Mar. 17.

Tex., Austin—State Bd. Control, C. Teer, chn. State Hy. Comn., general contract 15 story, 100 x 127 ft., brick, stone, rein.-con. state highway building, to J. E. Morgan & Sons, El Paso, $321,787; heating, to A. H. Shafer, 829 North St. Marys St., San Antonio, $19,999; plumbing, to Jud & Ormond, 703 North Flores St., San Antonio, $10,899; electric wiring, to E. Tengg, 220 West Commerce St., San Antonio, $26,884; elevators, to Otis Elevator Co., 1822 Young St., Dallas, $33,615; service tunnel, to McKenzie Constr. Co., Smith-Young Tower, San Antonio, $4,500; steam piping in tunnel, to Fox-Schmidt Co., Austin, $6,100; electric wiring in tunnel, to Wright Bros Electric Co., 405 Main St., San Antonio, $3,692. Grand total $427,476. Noted Mar. 24.

Tex., Longview — Gregg Co., c/o W. R. Hughes, judge, general contract 7 story, 97 x 130 ft., brick, stone, rein.-con. court house, to C. S. Lambie, Paramount Bldg., Amarillo. Est. $200,000. Noted Mar. 31.

Wis., Campbellsport—St. Joseph's Convent, masonry, concrete work for 5 story, basement, 100 x 200 ft. convent addition, to Hutter Constr. Co., Fond du Lac. Taking bids now steam heating, stokers, steel and cut stone. Noted Mar. 10.

Wis., Milwaukee—Bd. School Directors, du collecting system for Rufus King School, t Downey Heating Co., 1739 West St. Paul Av $690, electrical work, to Staff Electric Co., 165 North Jackson St. $43,150, plumbing, heatin and ventilating in above school, and ventilatin 27th Street School, to Wenzel & Henoch Co 1524 North 27th St., $148,293 and $6,451 re spectively; excavating, concrete and masonry i 27th St. School, to S. M. Siesel Co., 514 Eas Ogden Ave. $13,978, structural steel, to Acm Iron & Steel Co., 5329 West State St. $4,44 carpentry work, to J. P. Jansen Co., 3079 Nort 39th St. $9,000, plastering, to E. Jahn & Sons 735 North Water St. $3,380, tile, to H. Neidn & Co., 909 North Water St., $1,144, marble, t McClymount Co., 127 North 27th St., $2,29 plumbing, to O. A. Waskow, 2222 West Stat St. $6,587, heating regulation, to Natl. Regu lating Co., 1038 West Winnebago Ave. $1,84 reconstructing playing field and running trac South Side Stadium, to Kroening Constr. Co. 4500 West Mitchell St., $24,879. Grand tota $226,831. Noted Mar. 24.

Ont., Toronto—Toronto East General Hospital, Sammon Ave., general contract 3 story basement, fireproof nurses building, to A. W Robertson Ltd., foot of Spadina Ave.; excavation, to R. A. Johnston, 22 Broadway Ave. structural steel, to Frankel Bros., Eastern Ave. reinforcing steel, to Dominion Reinforcing Steel Co., 57 Bloor St. W.; millwork, to Williamson Lumber Co., 815 Woodbine Ave.; plumbing, to Sheppard & Abbott, 119 Harbord St.; steel joists, to Sarnia Bridge Co. Ltd., Federal Bldg Est. $150,000.

Ont., Weston—National Sanitorium Assn., 223 College St., Toronto, general contract 3 story, basement, brick, steel, concrete, stone addition, to sanatarium, to Jackson Lewis Co. Ltd., Federal Bldg., Toronto; excavation, to J. Martello, 16 Strathearn Blvd., Toronto; tile and terrazzo, to Italian Mosaic & Tile Co., 250 Madison Ave., Toronto; roofing and sheet metal, to Hyatt Jumbo Roofing Co., Roncesvalles Ave., Toronto; plumbing and heating, to Sheppard & Abbott, 119 Harbord St., Toronto; structural steel, to J. T. Hepburn, 18 Van Horne St., Toronto. Est. $250,000.

Industrial Buildings

PROPOSED WORK

Ariz., Mesa—Independent Cotton & Oil Co., rebuilding mill, recently destroyed by fire. $75,000.

Ariz., Prescott—National Exploration Co., W. W. Linesba; genl. mgr., new 150 ton mill and installing crushers, ball mill, classifiers, thickeners, and filters, ore bins, etc. $50,000.

Calif., San Francisco—Bethlehem Shipbuilding Corp. Ltd., 20th and Illinois Sts., warehouse and miscellaneous shipping facilities, 18th and Illinois Sts. $750,000. **Maturity indefinite.**

Conn., Groton—H. Morse-East Coast Ship & Yacht Building Co., Noank, altering and constructing ship plant addition. $40,000 or more. Private plans.

Ill., Chicago—Cardinell Vellum Mfg. Co., 15 Label St., Montclair, N. J., plans by Holabird & Root, 333 North Michigan Ave., Chicago, Ill., 1 and 2 story photographic building, steel frame and plywood siding, plain and concrete pile found. $50,000.

Ill., Granite City—General Aggregate Corp., c/o C. H. Hunsaker, Massey Concrete Products Corp., 611 Olive St., St. Louis, Mo., sketches crushing and screening plant for manufacturing light weight aggregate for concrete from slag. $150,000.

Ia., Grand Junction — City Council rejected bids Mar. 8, 37 x 47 ft. brick light and power plant building, two 265 hp. Diesel engines, two 185 kw. electric generators directly connected to Diesel engines, two 170 kw. electric generators direct connected to Diesel engines, complete distribution system. Will hold new election. $85,000. O. V. Blaylock, town clk. Noted Feb. 18.

Ia., Keokuk—Kane, Dunham & Kraus, Inc., 1709 Locust St., St. Louis, Mo., plans by M. J. Geise, State Center Bank Bldg., brick, concrete shoe factory. $40,000.

Mass., Haverhill—Wings Transportation Co., 12 Granite St., service garage. $40,000. Architect not appointed. **Maturity indefinite.**

Minn., Marshall—City, sketches municipal electric light and power plant. $100,000. G. M. Orr & Co., 408 Baker Bldg., Minneapolis, engrs.

Mo., Caruthersville—Southwest Missouri Compress Co., rebuilding cotton storage building. $150,000.

Mo., Kansas City—Benson Brass & Chandelier Wks., E. B. Benson, vice-pres., 3888 East 63rd St., sketches rebuilding 2 and 3 story, basement, concrete, brick plant, 1417 Agnes St. $60,000.

Neb., Omaha—Allied Mills, Inc., 29th and B Sts., rebuilding flour mill, 29th and B Sts., $350,000 fire loss. H. Offutt, c/o Allied Mills, 141 West Jackson Blvd., Chicago, Ill., archt.

Industrial Buildings (Continued)

N. J., Clifton—Jacques Wolf & Co., 350 Lexington Ave., New York, plans 2 story, basement, brick, steel chemical plant, Lexington Ave. $40,000. **Maturity soon.**

N. J., Irvington—N. J. Convery, archt., 32 Walnut St., Newark, bids in May, 2 story, basement, brick, steel warehouse, Lyons Ave., for T. J. Lee, c/o architect. $60,000. Noted Feb. 25.

N. J., Newark—Reliable Furniture Co., 43 Market St., rebuilding warehouse and furniture refinishing plant, destroyed by fire, 9 Comes Alley. To exceed $40,000. **Maturity indefinite.**

N. J., Trenton Junction—State Bd. Educ., State House, new bids in July, altering and constructing 2 story, basement, 70 x 90 ft. brick, steel shop building addition, New Jersey School for Deaf. $75,000. Guilbert & Betelle, 20 Branford Pl., Newark, archts. Noted Jan. 28.

N. J., Union City—Sheffield Farms Co., Inc., 524 West 57th St., New York, soon lets contract 2 story, basement, brick, steel, new distributing plant, office, stable (alterations), Hudson Co. Blvd. $40,000. K. Willaredt, 411 23rd St., West New York, archt. Noted Apr. 14.

N. Y., Arverne—Arverne Holding Corp., 300 Beach 71st St., plans by H. Cashin, c/o owner, altering 1 story, 33 x 114 ft. laundry, Beach 71st St. and Long Island tracks.

N. Y., Brooklyn—Bee Line Realty Corp., H. B. Carter, pres., plans by H. R. Harvie, 370 7th Ave., New York, 2 story, terminal, platforms, garage, Albee Sq. and Fleet St.

N. Y., Brooklyn—P. W. Connelly, 63 Church St., 1 story, 125 x 230 ft. service garage, Gravesend and Ditmars Aves., day labor and separate contracts. $100,000. B. Driesler, Jr., 153 Remsen St., archt.

N. Y., Brooklyn—M. and R. DuBritz, Empire Blvd. and New York Ave., sketches by J. A. Boyle, 367 Fulton St., 35 x 68 ft. service garage, Empire Blvd. and New York Ave.

N. Y., Brooklyn—Humboldt Service Laundry, Inc., 47 Humboldt St., sketches by B. Chester, 26 Court St., altering and extending 2 story, brick, frame building and altering 3 story, building for laundry, Vare and Humboldt Sts.

N. Y., Brooklyn—Rames Realty Corp., W. Volman, in charge, 222 Eagle St., sketches by J. A. Napoli, 369 Fulton St., 1 story, 50 x 100 ft. service garage, India and Oakland Sts.

N. Y., Elmira—Swift & Co., Plant Packers and Exchange Aves., Chicago, Ill., warehouse, Erie R.R. tracks. To exceed $40,000.

N. Y., Lowville—Sheffield Farms, 524 West 57th St., New York, rebuilding dairy plant, destroyed by fire. To exceed $50,000. **Maturity indefinite.**

N. Y., New York—Carlonesto Realty Corp., 391 East 149th St., bids after May 15, general contract 65 x 130 ft. service garage, Jerome Ave. and Kingsbridge Rd. W. N. Del Gaudio, 545 5th Ave., archt. Noted Mar. 24.

N. Y., New York—S. Haddock, 1133 Bway., altering and constructing storage addition, incl. new boiler room, flue excavation, and new plumbing in old building, 51 Orchard St. To exceed $40,000. A. J. Simberg, 1133 Bway., archt.

N. Y., New York—Lawyers Mortgage Co., 345 8th Ave., soon lets general contracts from privately submitted bids after May 15, altering and constructing 8 story, 56 x 86 ft. storage and apartment extensions, 508 West 112th St. $40,000. M. W. Del Gaudio, 545 5th Ave., archt. Noted Mar. 31.

N. Y., New York — New York University, Waverly Pl., sketches by W. S. Gregory, 180 Madison Ave., altering 8 story, basement, subbasement, 90 x 97 ft. manufacturing and storage plant, incl. removing 2 present elevators and installing 2 new elevators, 18 Washington Pl. To exceed $85,000.

N. Y., New York—Martin O'Dowd & Co., 300 Riverside Dr., sketches by W. Vaile, 50 Church St., altering 3 story service garage, incl. penthouse, elevators, new plumbing, 11th Ave.

N. Y., New York—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., bids after June 1, superstructure 1, 2 or 3 warehouses, New York Central tracks and 30th to 34th Sts., $1,000,000 each, foundation work nearing completion; bids in July or later substructure terminal warehouse at St. Johns Park Freight Terminal, to exceed $1,000,000. Noted Mar. 19, 1931.

O., Cleveland—Sabin Machine Co., 653 Carnegie Ave., plans by H. B. Morse, archt. and engr., 736 Prospect Ave., 1 story plant addition. $40,000.

Pa., Dubois—R. G. Howard, assoc. archt., Dep. Natl. Bank Bldg., soon lets contract 1 story, 60 x 80 ft. enameled brick gasoline service station, incl. washing racks, gasoline tanks, for Kendall Refining Co., Kendall Ave., Bradford. $40,000. Bacon & Lurkey, 997 Main St., Buffalo, N. Y., archts.

Pa., Erie—City, M. J. Henry, clk., City Hall, municipal light and power plant. **Maturity indefinite.** A. N. Aitken, City Hall, engr. E. Ingersoll, City Hall, utilities engr.

Tex., Marlin—Exporters & Traders Compress & Warehouse Co., rebuilding warehouse and compress plant, recently destroyed by fire. $250,000.

Va., Brookneal—C. J. Wheelberger, Dayton, and J. H. Burruss of Burruss Land & Lumber Co., Lynchburg, furniture factory. Plant to be operated by C. J. Wheelberger.

Wash., Everett—Great Northern Co., Everett, J. Irving, trustee, applied to Federal Power Comn. for preliminary permit developing power on Sultan, Olney, Wallace and Skyomish Rivers, Snohomish Co. $8,000,000.

Ont., East Windsor—McCall-Frontenac Oil Co. Ltd., 114 Don Esplanade, oil and gasoline storage plant, consisting of 3 large steel tanks, Huron and St. Luke Sts.; also 1 story, 40 x 140 ft., brick, steel warehouse. $50,000. Private plans.

Ont., Leamington—H. J. Heinz Co., Erie St. S., 2 or 3 story, basement, brick, concrete, steel, canning plant addition. $250,000 or more. Private plans.

Ont., Niagara Falls—Kotex Co. of Canada, 554 Queen St., making plans new and larger plant, Victoria Ave. Kimberley Clark Co., Neenah, Wis., engrs.

Ont., Toronto—Donlands Dairy, 120 Donlands Ave., plans by E. G. Wilson, 42 Langley Ave., 1 and 2 story, brick, concrete dairy and pasteurizing plant addition. $40,000.

BIDS ASKED

Ia., Keokuk—M. J. Geise, archt., Center Bank Bldg., bids about May 1, 1 story, 28 ft. high, 50 x 300 ft. shoe factory, concrete brick, for Kane, Dunham & Kraus, Inc., 1709 Locust St., St. Louis, Mo. Machinery will be purchased direct by owner.

Mass., Worcester—Colonial Beacon Co., 30 Beacham St., Everett, taking bids 1 story, brick, concrete warehouse and bulk plant. $40,000. Private plans.

N. J., Hillside—See "Contracts Awarded."

N. Y., Brooklyn—See "Contracts Awarded."

N. Y., Brooklyn—Trunz Pork Stores, 25 Lombard St., taking bids general contract 3 story storage building and altering present buildings, also foundation work, Lombardy St. and Kingsland Ave. $50,000. Allmendinger & Schlendorf, 1 Hanson Pl., archts. Noted Apr. 7.

N. Y., College Point—Corporation, c/o J. R. Thompson Agency, S. P. Bates, in charge, 29-28 Hunter Ave., Long Island City, bids about July 1, ship yard. To exceed $40,000. Site acquired. Noted Nov. 12.

N. Y., Flushing—P. L. Kieswetter, archt., 367 Fulton St., Brooklyn, bids on separate contracts later 100 x 125 ft. service garage, 41st Ave. and James St., for G. DiGerolamo, 13 West Bradford Ave. Noted Mar. 24.

N. Y., Jamaica—See "Contracts Awarded."

N. Y., New York—Five Hundred Fourteen West 23rd Street Corp., 100 Southern Blvd., bids about July 1, 4 story service garage, 514 West 23rd St. R. G. Cory, 30 Church St., archt. Noted Jan. 28.

N. Y., New York—May 6, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., furnishing, installing station and tunnel lighting equipment, incl. electric heating for part of Independent System of City-owned **Rapid Transit Railroads, extending and adjacent to 182nd St. and 205th St. Station (inclusive) Bronx Boro.**

N. Y., New York—See "Contracts Awarded."

N. C., Concord—See "Schools."

O., Cincinnati—May 10, by Cincinnati Union Terminal, Temple Bar Bldg., 6 track rein.-con. coaling station and ash handling system, to provide overhead storage capacity of 1,600 tons and provide storage for 250 tons wet sand and 50 tons dry sand, also soon lets contract for substructure for part of southeast connection to passenger station and yard between 6th St. and Freeman Ave.

Ore., Salem—May 12, by W. Einsig, secy. State Bd. Control, Salem, electrical distribution system for state buildings, Sect. A; power plant at penitentiary, Sect. B; installing suitable Diesel electric generating plant in power plant building, Sect. C.

Va., Richmond — May 4, at office R. K. Compton, dir. P. Wks., City Hall, 2 story, 77 x 228 ft. (steel frame and sides) warehouse and transit shed along Municipal Wharf between Gillies Creek and foot Nicholson St.; adv. E. N.-R. Apr. 21.

Wash., Tacoma—See "Contracts Awarded."

CONTRACTS AWARDED

Ala., Birmingham—Louisville & Nashville R.R., W. H. Courtenay, Louisville, Ky., ch. engr., service building, retaining walls, etc., for passenger station, necessitated by grade elimination program, to Foster & Creighton Co. Protective Life Bldg., $52,831; electrical work, to Ball & Dyer Electric Co., Inc., 905 South 22nd St., $14,700; plumbing installation, to Morris Plumbing Co., 609 South 53rd St., $2,961. Grand total $70,492.

Calif., Oakland—El Dorado Oil Wks. Co., 3rd St. and University Ave., Berkeley, and 230 California St., San Francisco, concrete work for 100 x 650 ft. cocoanut factory, steel, concrete, 40 x 410 ft. rein.-con. warehouse, to Barrett & Hilp, 918 Harrison St., San Francisco. Total est. $750,000. Noted Jan. 21.

Ill., Blue Island—Koehler Paper Co., 2526 West Oak St., general contract rebuilding 1 story, irregular sized brick warehouse, to W. Mancke, 6769 174th St., Tinley Park. Est. $40,000.

Ind., Indianapolis—Weigands Sons Co., 16th and Illinois Sts., general contract 1 story, basement, 55 x 138 ft., brick, steel plant, 16th and Illinois Sts., to W. P. Jungclaus, 825 Massachusetts Ave. Est. $40,000.

Mass., Boston—City, Hospital Dpt., altering 1 story, brick power plant at City Hospital, to John Bowen Co., Inc., 129 Newbury St. $208,700. Noted Mar. 24.

Mass., Wellesley—H. O'Shaughnessy, c/o J. J. O'Shaughnessy, archt., 80 Boylston St., Boston, 1 story, concrete service station, concrete found., Washington and River Sts., to La Chance Inc., 80 Boylston St., Boston. Est. $40,000 or more. Noted Nov. 5.

Mass., Westfield—Gladwin & Lane, 224 Elm St., 1 story, 60 x 100 ft. ice manufacturing plant, brick, steel, plain found., to L. D. Phillips Constr. Co., Inc., 10 Main St. Est. $40,000.

Mich., Midland — Alco Products Co., contractors, 220 East 42nd St., New York, awarded contract for design and construction oil refinery. To exceed $350,000. Owner's name withheld.

Mo., St. Louis — Sieloff Packing Co., 4329 Natural Bridge Ave., general contract 1 story, 40 x 74 ft., and 1 story, 16 x 94 ft. top addition to packing plant, to H. A. Haeseler Building & Constr. Co., 2346 Palm St., $20,943. Noted Feb. 4.

N. J., Hillside—Hillside Chevrolet Co., M. Bloom, pres., 331 East Jersey Ave., Elizabeth, 1 story, basement, brick, steel garage and showroom, North Broad St., separate contracts. $40,000. Construction Service Corp., 80 Broad St., Elizabeth, engr.

N. Y., Brooklyn—Greenreen Realty Corp., B. Greenthal, pres., 493 Bushwick Ave., 2 story, 50 x 90 ft. storage and store building, also store and dance hall building, Church Ave. and East 94th St., day labor and separate contracts. **Maturity in May.** J. Fein, 1797 Pitkin Ave., archt. Noted Apr. 7.

N. Y., Brooklyn—Greenreen Realty Corp., 493 Bushwick Ave., 100 x 100 ft. service garage, Kings Highway and West 4th St., separate contracts. **Maturity after October.** F. Fein, 1797 Pitkin Ave., archt.

N. Y., Brooklyn—Standard Oil Co. of New York, 26 Bway., New York, 1 story, brick blower building and 1 story metal shed, to C. Woodruff, 213 10th St., Long Island City. Noted Mar. 17.

N. Y., Jamaica—Queens County Service Station, Hillside Ave. and 182nd St., 1 story, 42 x 84 ft. service repair testing and lubrication station addition, separate contracts. A. Goldberg, 164 Montague St., Brooklyn, archt. Noted Mar. 24.

N. Y., New York—Crisenfor, Inc., G. S. Delafield, pres., 250 Park Ave., 2 story, storage, store, to E. Corning, 204 East 39th St. Est. exceeds $80,000. Noted Mar. 31.

N. Y., New York — S. Roth, archt., 1182 Bway., New York, altering 4 story, basement service garage, 56 East 115th St., separate contracts, for M. S. and R. Rosenfeld, 56 East 115th St. Noted Feb. 11.

N. C., Winston-Salem—Hinde & Dauch Paper Co., Petersburg Park, Richmond, Va., and 3400 East Biddle St., Baltimore, Md., C. Van Wagner, representative, Winston-Salem, corrugated shipping box factory, incl. machinery on Southern R.R. trackage near Chatham plant, to W. N. Reynolds, Winston-Salem, $150,000.

Oklahoma—Consumers Ice Co., Tyler, Tex., 1 story, 60 ton daily capacity ice plant, rein.-con., steel, brick Cherokee and Fon du Lac Sts., Muskogee, two 1 story, 40 ton daily capacity ice plants, steel frame, asbestos siding, concrete found., one at McAlester, other at Sapulpa. Owner builds under supervision G. E. Wells, Inc., Security Bldg., St. Louis, Mo. Ests. $50,000 each. Noted Sept. 22 and Oct. 8.

Pa., Erie—Erie Casket Co., 1901 Sassafras St., W. C. Kibler, pres., 2 story, basement, 70 x 130 ft., brick, steel factory, to E. E. Austin & Son, 1919 Reed St. Est. $40,000. Noted Mar. 31.

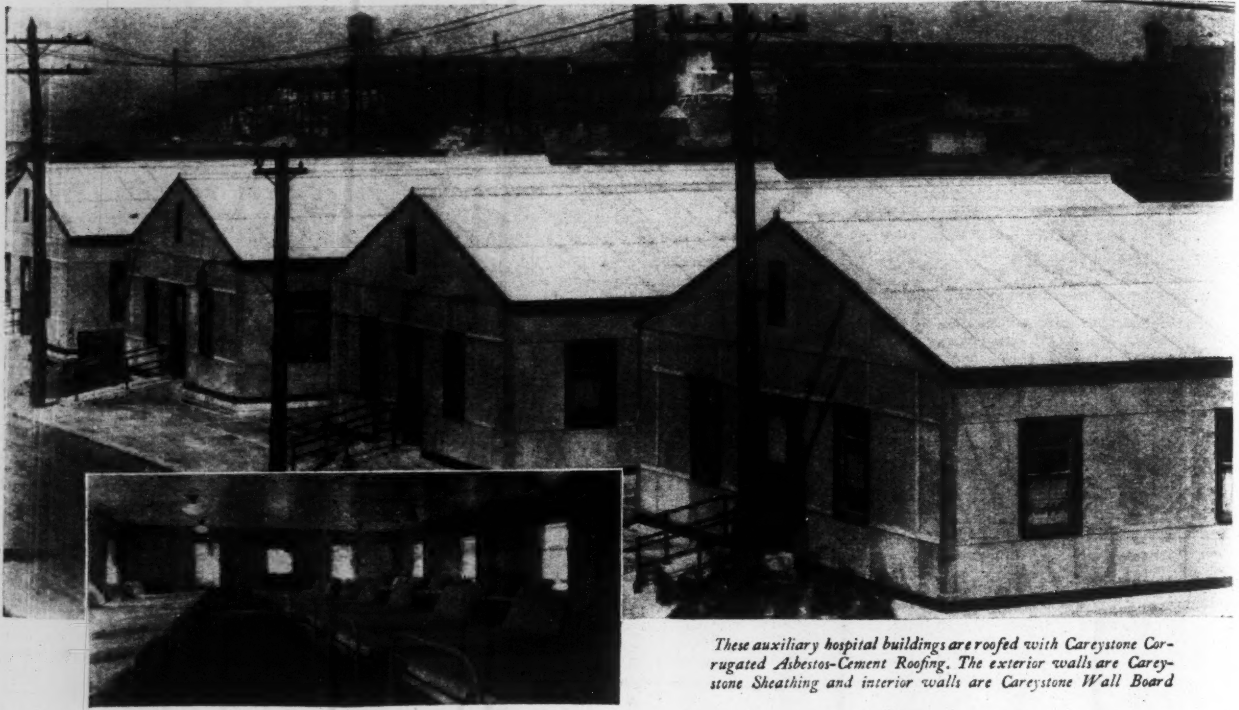
Tenn., Athens—Athens Stove Wks., 1 story, 125 x 200 ft. plant addition and foundry, to Nicholson Constr. Co., 102 West Clinch St., Knoxville. Est. $40,000.

Tex., Dallas—Owner, truck freight terminal, 700 South Lamar St., to Henger & Chambers, 1600 Dallas Natl. Bank Bldg. Est. $100,000.

Wash., Tacoma—Puget Sound Mfg. Co., 1123 St. Paul Ave., rebuilding 1 story, 100 x 125 ft. woodworking plant, 1123 St. Paul Ave., day labor. Private plans.

Wis., Racine—See "Waterworks."

See proposal advertising on page 51



These auxiliary hospital buildings are roofed with Careystone Corrugated Asbestos-Cement Roofing. The exterior walls are Careystone Sheathing and interior walls are Careystone Wall Board

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WHEN fire-proof roofs and walls are needed and costs must be held down, Careystone Roofing and Siding furnishes the answer. Made of asbestos and Portland cement, these sturdy sheets contain nothing to burn or corrode and are as lasting as stone. Careystone is formed under great hydraulic pressure into both corrugated and flat sheets of various thicknesses. These sheets are factory cut to size and hence can be applied on the structural steel at minimum labor cost and in the shortest possible time. Careystone requires no paint or other renewal treatment, and its use therefore eliminates the continuous upkeep expense which is incurred when less permanent construction is used. The natural gray color reflects the sun's heat, making buildings cooler in summer. Because of these obvious advantages, the use of Careystone for many types of construction is rapidly increasing. Our engineering department will supply full information, including cost estimates for roofing or siding any proposed building.

THE PHILIP CAREY COMPANY ✕ Lockland, Cincinnati, Ohio
Branches in Principal Cities

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ROLL ROOFINGS

CONSTRUCTION NEWS

SECTION OF ENGINEERING NEWS-RECORD—APRIL 28, 1932

WATERWORKS

PROPOSED WORK

Calif., La Habra—Plans purchasing existing water system or constructing new system, incl. rein.-con. reservoirs, drilling wells, installing c.i. mains. $100,000 bonds voted for same. Koebig & Koebig, Rowan Bldg., Los Angeles, engrs. Noted Mar. 31.

Calif., Pasadena—City preparing specifications design gates and valves for Pipe Canyon Dam, incl. two 8 ft. diam. gates, three 48 in. diam. and one 54 in. diam. outlets, needle valves will be installed on outlets to regulate flow, c.i. bell-mouth intakes on upstream face, to exceed $25,000. Water conduit construction will probably not be started until dam has been under construction 1 year, contract of same now awaiting Supreme Court decision. S. B. Morris, City Hall, engr.

Calif., San Francisco—City to provide $15,900 funds, 200 new fire hydrants, also $12,000 in addition to above estimate for improving high pressure water system. J. J. Casey, city engr.

Ill., Chicago—Century of Progress, Administration Bldg., Grant Park, plans in progress pumping station and sewer facilities, also underground conduit system, to serve area from 13th to 23d Sts.

Mass., Swampscott — Town, Bd. Selectmen, pumping station addition. $15,000-$20,000. Engineer not appointed.

Mich., Ludington—City retained Francis Eng. Co., engrs., Saginaw, to prepare plans for waterworks and distribution system, incl. new boilers, electrical equipment, Diesel engines, piping, etc. $25,000.

N. J., Hibernia—Bd. City Comrs., City Hall, Jersey City, dam and water shed at Spit Rock Farms. $200,000. A. Mauzy, City Hall, Jersey City, engr.

N. Y., Springfield—Dpt. Water Supply, Gas & Electricity, Municipal Bldg., New York, preliminary plans altering 1 story, 44 x 87 ft. brick, frame pumping station. $45,000.

Wyo., Cheyenne—City preparing plans filter and storage plant improvements. $10,800. P. R. Revis, city engr.

Wyo., Cody—City, 1,600 ft. steel or c.i. main from Beck Lake to City Reservoir and installing automatic pump at Beck Lake. $3,000. P. R. Greever, mayor.

BIDS ASKED

Ill., Geneva—May 16, by City, 300,000 gal. steel tank on tower. Wells Eng. Co., Court House, engrs.

Ia., Emerson—May 6, at office H. E. Greenwood, town clk., 10 in. well, 100 ft. deep, 80 g.p.m. turbine pump, brick or hollow tile pump house, furnishing laying 800 lin.ft. 4 in. Class B or Class 150 c.i. pipe, necessary connections. K. Young, 2039 North 50th St., Omaha, Neb., engr.

Mo., St. Louis—May 10, by N. K. Maston, supply comr., City Hall, 8,400 lin.ft. 36 in. steel or cast iron watermains for Water Dpt. Private plans.

N. Y., Peekskill—May 3, by Adjutant General, Div. Military & Naval Affairs, State Capitol, Albany, water lines and sewers at State Armory. $9,000.

N. Y., Watervliet—May 13, by K. V. Moran, city clk., reconstructing filtration plant. $110,000.

O., Columbus—May 7, by F. L. Donnally, clk. Franklin Co. Comn., 2,460 ft. 8 in. and 6,754 ft. 6 in. c.i. water lines, four 8 in., twenty-five 6 in. valves, 29 gate boxes, 14 hydrants, in Sewer Dist. Mifflin No. 2, Contr. 159, $12,000; plans completed, 3,530 ft. 8 in. and 14,560 ft. 6 in. c.i. water lines, six 8 in., forty-two 6 in. valves, 48 gate boxes and 26 hydrants in Elmore addition, Contr. 152, $22,000. E. G. Bradbury, Court House Annex, engr.

Pa., Easton—Lehigh Water Co. taking bids and soon lets contract filtration plant materials, incl. reinforcing steel. To exceed $75,000.

Tenn., Memphis — May 20, by Bd. Water Comrs., J. Sheahan, genl. supt., 107 North 2nd St., Contr. 11, incl. piping, auxiliary equipment for new Sheahan Pumping Station. T. H. Allen, 65 McCall St., Memphis, and Fuller & McClintock, 170 Bway., New York, engrs.

CONTRACTS AWARDED

Pa., Pittsburgh—See "Streets and Roads."

Tenn., Nashville—Bd. P. Wks., at office S. H. McKay, city clk., constructing aerator system of multiple inspirated tube principle, over grit chamber of filtration plant, appurtenances, to Nashville Bridge Co., foot of Shelby St., $9,087.

Wash., Yakima—City supplying 18,139 ft. 16- to 24-in. c.i. pipe, to Inland Pipe & Supply Co., Yakima. $48,755. Est. $60,000.

Wis., Appleton — Outagamie Co., John Hantschel, clk., rein.-con. reservoir equipment, etc., to F. Piette, 1414 North Richmond St., $6,800. Noted Mar. 3.

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◆

SEWERS

PROPOSED WORK

Ill., Geneva—City Council, bids in July, sewage disposal plant, consisting activated sludge, 9 aerators, glass enclosed sludge bed, gas collection and burning, etc., necessary appurtenances, auxiliary piping. $110,000. Wells Eng. Co., Court House, engrs.

Ill., Monsanto—Village soon takes bids complete sewerage system. $170,000. B. M. McCurdy, Court House, Belleville, engr.

Mo., Kennett—City complete sewage disposal plant and auxiliary piping, connecting sewers. $20,000 bonds voted. Total $30,000.

Mo., St. Louis—Dpt. Streets & Sewers will submit to Bd. Aldermen a bill to appropriate $10,000 of bond issue funds for survey to determine what repairs are needed for Old Mill Creek Valley sewer extending throughout old Mill Valley, from Duncan and Vandeventer Aves. to Mississippi River at point near Chouteau Ave. Est. cost repairs $200,000. W. W. Horner, city engr.

N. J. North Bergen—Bd. Twp. Comrs., Town Hall, improving vitr. sanitary sewer in Center, Washington, 28th, North and William Sts. $25,000. **Maturity soon.** R. Glenn, twp. engr.

S. D., Sioux Falls—Repairing water system, and making surveys waterworks to detect leaks. $5,000. R. E. Bragstad, city engr. Pitometer Co., 5311 Kenmore Ave., Chicago, Ill., engr.

BIDS ASKED

Mass., Boston—May 4, by Dpt. P. Wks., J. A. Rourke, comr., sewerage works in various streets, West Roxbury and Dorchester $25,000; May 5, West Roxbury and Dorchester, $25,000 or more; May 6, Lagrange St., West Roxbury, $25,000.

N. J., Burlington—May 3, by City Council and Mayor, storm sewers along East Broad St. and Columbus Ave., $27,000; Burlington Co. and State to share cost; also taking bids 18- to 36-in. concrete and c.i. pipe. B. Sleeper, city engr.

N. Y., Beacon—May 24, at office Dpt. Correction, W. N. Thayer, Jr., comr., State Office Bldg., Albany, sewers and water lines at Matteawan State Hospital, $17,546; adv. E. N.-R. Apr. 28.

N. Y., Long Island City—May 2, by G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., temporary force main in Queen Blvd. and installing pumps in temporary pumping station 2d Ward; sewers in Bell Blvd., 59th, 58th and 214th Pls., Tyler, Cooper, Roosevelt, 35th, 145th, Archer, 89th, Hillside and Jamaica Aves., 60th, Corporal Stone, 215th, South Conduit, 148th and 163rd Sts.

N. Y., St. George—May 4, by J. A. Lynch, pres. Richmond Boro, Boro Hall, temporary sanitary sewer in Seneca Ave. from Oswego St. to Victory Blvd.

Okla., Oklahoma City—See "Materials."

CONTRACTS AWARDED

Calif., Los Angeles—See "Streets and Roads."

Mass., Boston—Metropolitan Dist. Comn., 20 Somerset St., Sect. 123 Braintree-Weymouth Sewer, Quincy-Weymouth, to Merritt, Chapman & Scott Corp., Industrial Trust Bldg., Providence, R. I., $98,280.

Mo., Kansas City—See "Streets and Roads."

New York—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, furnishing, installing drainage equipment for Line A from Bway. to Jay Sts. and Line B from Concord St. to Avenue C, part Independent System City-owned Rapid Transit Railroads, Manhattan and Brooklyn Boros, to Woodcrest Constr. Co., Grand Central Terminal, New York, $99,990. Noted Mar. 24.

N. Y., Brentwood—Dpt. Mental Hygiene, State Office Bldg., Albany, sewers and water lines at Pilgrim State Hospital, Suffolk Co., to P. Tomasetti Contg. Corp., 1074 60th St., Brooklyn, $94,365. Noted Mar. 24.

WASTE DISPOSAL

PROPOSED WORK

Mich., Detroit—City, Dpt. P. Wks., City Hall, council ordered immediate completion of plans for 4 garbage incinerator plants, rein.-con., brick, steel, plain founds., to be constructed on city-owned property at Harper and Shoemaker Sts., Old House of Correction site, Buena Vista Ave. and Michigan and Livernois Aves $2,000,000. City Engineer's Office, City Hall, engrs.

BRIDGES

PROPOSED WORK

Ill., Chicago—South Park and Lincoln Park Comns., Clark and Center Sts., have applied to Federal Reconstruction Finance Corp. for a credit to complete Outer Link Bridge at mouth Chicago River. This request on account inability to sell bonds for less than 25% discount. $6,000,000. Noted Jan. 28.

O., Andover—Ohio Hy. Dpt., Columbus, approved plans prepared by Pennsylvania Hy. Dpt., viaduct and causeway along Route 85, Ashtabula Co., near here. $1,500,000. Ohio Legislature in 1920, gave Pennsylvania permission to flood Pymatuning Swamp between Ohio and Pennsylvania for water cnoservation and making of na artificial lake. In so doing the hy. was flooded and Pennsylvania pledged herself to raising it.

O., Cleveland—Soon takes bids waterproofing 100,000 sq.ft. Fulton Rd. Bridge (now nearing completion). J. M. Heffelfinger, City Hall, bridge engr. Noted Mar. 17.

BIDS ASKED

California — May 4, by State Hy. Comn., Sacramento, 3 bridges at points between 4.8 mi. south of Gorman Station, Los Angeles Co., incl. 3,190 cu.yd. excav., 1,500 cu.yd. concrete, 143,000 lb. bar reinforcing steel, 195,000 lb. new structural steel, 1 lot plate girder spans, 110 cu.yd. rock fill. State furnishes 3 plate girder spans. C. H. Purcell, hy. engr.

Calif., Los Angeles—Bd. Comrs. Los Angeles Co., Court House, taking bids 12 span 480 ft. rein.-con., steel girder bridge on concrete piles with concrete deck and railings, 54 ft. roadway, pedestrian sidewalks over Rio Hondo River at Firestone Blvd. To exceed $25,000. W. D. Armstrong, Hall of Records Bldg., engr. Noted July 19.

Ia., Clinton—See "Streets and Roads."

Kentucky—See "Streets and Roads."

Mississippi—See "Streets and Roads."

Miss., Columbus—May 2, by Bd. Supervs. Lowndes Co., creosoted pile bridge over Mustin Creek, Dist. 3, concrete culvert extensions, one on Wolf Rd., Dist. 1, Murphy Pl., one over Black Bottom Creek, Thomas Pl., one at Jernighan Pl., other on Honnel-Freeman Rd., Dist. 1, Jule Freeman Pl.

Missouri—May 5, by State Hy. Bd., Jefferson City, bridges in Butler, Camden, Carroll, Cedar, Christian, Dallas, Gasconade, Greene, Henry, Jackson, Johnson, Laclede, Lawrence, Macon, Mississippi, Oregon, Pemiscot, Putnam, Randolph, St. Charles, St. Genevieve and Webster Counties. T. H. Cutler, Jefferson City, state hy. engr.

Pennsylvania—See "Streets and Roads."

Tennesee—See "Streets and Roads."

CONTRACTS AWARDED

Ill., Chicago—Century of Progress Exposition, Administration Bldg., Grant Park, substructure for temporary bridge connecting Northerly Island with main land, to Fitzsimons & Connell Dredge & Dock Co., 10 South La Salle St., $45,000.

Ill., Galesburg—See "Streets and Roads."

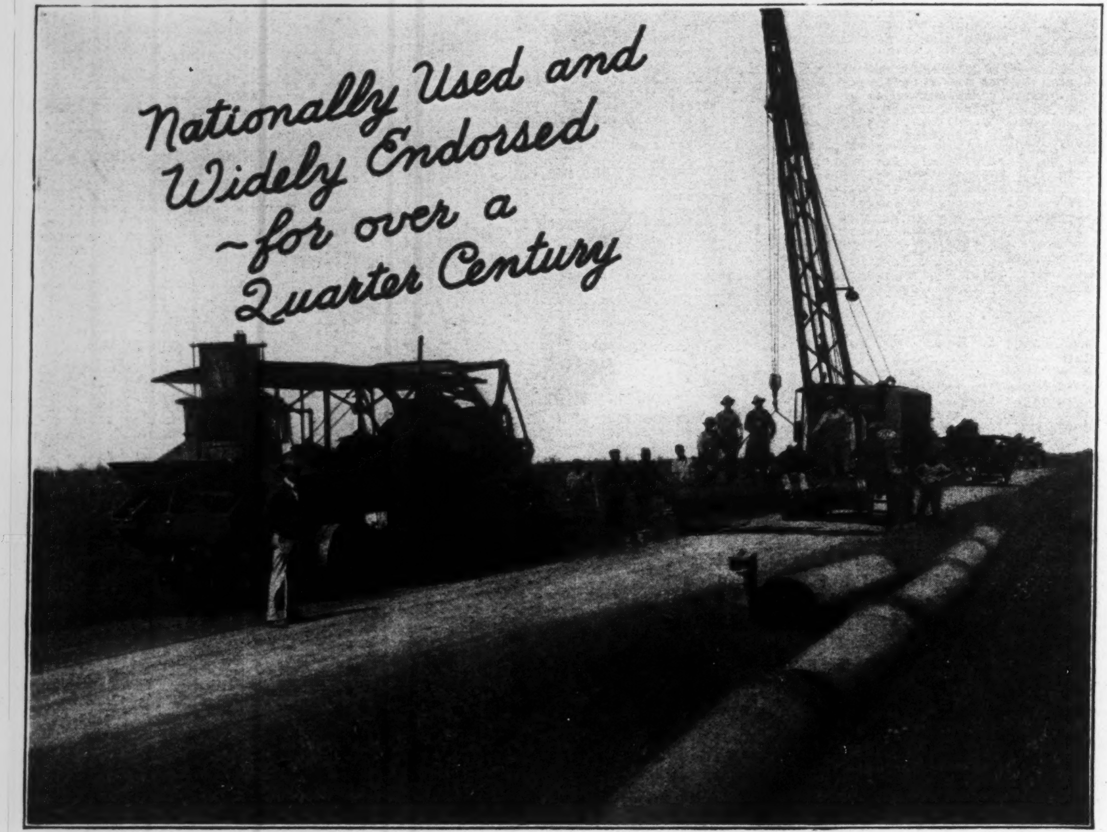
Ia., Newton—See "Materials."

Maine—State Hy. Comn., Augusta, to H. J. Cyr Co., Inc., Waterville, concrete bridge, Orland $3,554; concrete for bridge Anson, $27,226; concrete bridge Bucksport, $5,441—to W. H. Hinman, concrete bridge Anson, $16,489—to Lackawanna Steel Constr. Corp., Walden Ave., Buffalo, N. Y., steel superstructure bridge Anson, $10,562—to Naddeau & Dumond, Fort

See proposal advertising on page 85

LEADITE

Trade Mark Registered U.S. Pat. Office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—for over a
Quarter Century

LEADITE needs no introduction to most Engineers, Water Works Men and Contractors,—for it has been SPECIFIED AND USED in all parts of the country for over a Quarter Century. . . . .and the reason for this widespread acceptance is summarized in just two words, viz: QUALITY and SATISFACTION.

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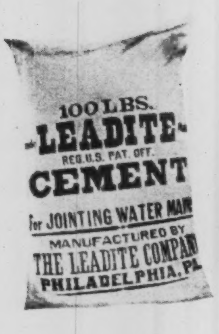
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LEADITE
REG. U.S. PAT. OFF.
CEMENT
For JOINTING WATER MAINS
MANUFACTURED BY
THE LEADITE COMPANY
PHILADELPHIA, PA.

No Caulking

Bridges **(Continued)**

Kent, concrete bridge, Monticello, $8,279—to J. W. McLean, Waterville, concrete bridge, Calais, $7,643. Grand total, $79,194. Noted Apr. 7.

Missouri—State Hy. Bd., Jefferson City, to E. L. Markham, Cape Girardeau, bridges over Dexter Creek, $10,419; over Drainage Ditch Lateral 1 $1,977; over branch $1,034; over Drainage Ditch Lateral 2, Dist. 37, $4,533; over Main Drainage Ditch Dist. 8, $5,381, all foregoing in Stoddard Co.—to Service Constr. Co., Poplar Bluff, over Long Run Creek $2,155; over Pond Fork, $8,843; over Little North Fork of White River $31,398, all foregoing Ozark Co.—to Nevada Constr. Co., Nevada, over branch, $1,133; over Honey Creek $3,504, both Mercer Co.—to Hoeffken Bros., Belleville, Ill., over Sappington Branch, Moniteau Co., $1,410; over Long Branch, $2,661; over Bartlett Branch, $4,099; over Lamini River, $3,396, both Cooper Co.—to C. W. Rose, Brookfield, over Crooked Creek, $2,483; over creek, $919, both Grundy Co.—to Hartman-Clark Bros. Co., Peoria, Ill., over Wyaconda River, $14,468; over branch $785; over stream $1,735; over branch $1,033; over branch $989; over Oyster Branch $1,907, all foregoing Lewis Co.—to M. Wunderlich, Jefferson City, over Corn Creek, $4,908; over Little Weaubleau Creek, $9,180, both St. Clair Co.; over Cave Branch, $1,313; over Yarnall Branch, $4,916; over Camp Branch, $2,661, all foregoing Cedar Co.; over Jug Run, Ralls Co. $2,056—to J. A. Kerr, Ozark, over Howell Valley, Howell Co., $5,493—to Independent Constr. Co., Pittsburg, Kan., over Crooked River, Ray Co., $5,835—to F. W. Whitehead, Kahoka, over Otter Creek, Monroe Co., $20,254—to Kelley & Underwood, Granby, over Sac River, St. Clair Co., $42,446—to A. Melberg, Cedar Rapids, Ia., over Charlton River, Adair Co., $16,909—to G. E. Stoner, Springfield, over Sac River, Cedar Co., $37,736. Grand total, $259,969. Rejected bids bridge over Hodges Creek, Dent Co. Noted Mar. 31.

Missouri—State Hy. Bd., Jefferson City, to Bunnell & Mock, Paragould, Ark., bridges over branch on Perry Co. Rd. S., R. 51, Sect. 12, Ballinger Co. $1,527; over Big White River, same road $9,859; over Schrawan Creek, $5,733; over Buck Creek, Sect. 13 same road $2,394—to Cameron Joyce & Co., Keokuk, Ia., over C and A Lake, on Mexico Scott's Corner Rd. R. 54, Sect. 126A, Audrain Co. $1,885; over East Littleby Creek, same road, Sect. 126B, $1,416; over Bean Branch $2,207; over east fork Bean Creek, same road, $3,462; over creek, Sect. 126C, $1,045—to Carson Cuddy Constr. Co., Brunswick, over West Branch Muscle Fork, Green City-Green Castle Rd., R. 6, Sect. 36, Sullivan Co. $2,671; over East Branch Muscle Fork, same road, $2,073; over Anderson Branch, same road, $2,295—to M. E. Gillioz, Monett, over Meramec River, on Bunker-Stone Hill Rd., Route 72, Sect. 7, Dent Co. $7,439; over ditch, same road $1,110; over Creek, Harrisonville-Clinton Rd., Route 35TR, Sect. 19, Cass Co. $2,036; over overflow Knob Creek, same road $1,767; over north branch Knob Creek, $2,609; over Cusick Creek, $1,715—to M. Wunderlich, Jefferson City, over Reader Branch, on Harrisburg-Route 63 Rd., Route SC, Sect. 8, Boone Co., $1,494; over drain, same road $593; over Grindstone Creek, same road, $4,197; over Elkhorn Creek, Buell-Middletown Rd., Route SD, Sect. 3, Montgomery Co. $4,948; over Crooked Creek, same road, $2,072—to Davis Constr. Co., Boonville, over North Fork Little Meramec River, St. Clair-Cedar Hill Rd., Route 30, Sect. 351B, Franklin Co. $7,133; over Lone Dell Branch, on same road, $1,679; over south fork Little Meramec River, same road, $7,943—to J. Kesl & Sons, Edwardsville, Ill., over Drainage Ditch 41, on Malden-Route 61 Rd., Route 62, Sect. 5A, New Madrid Co., $4,876; over Pike Creek, Van Buren-Northwest Rd., Route SM, Sect. 1, Carter Co. $8,568—to Sandy Hites Co., Kansas City, over branch Maline Creek, on Bridgeton Rd.-Route 99 Rd., Route 77TR, Sect. 3, St. Louis Co. $5,635; over Cold Water Creek, Sect. 4, same road, $9,983—to S. Sherrer Constr. Co., Kansas City, Kan., over south fork Higley Creek, on Route 1-Nodaway Co. Rd., R. 113, Sect. 342B, Holt Co. $6,608; over stream same road $3,933; over north fork, Higby Creek, $6,344—to E. K. Porter, Carrollton, bridge over South Fork Janca Creek, St. Genevieve Co. $2,771—to C. H. Atkinson Paving Co., Chillicothe, over south fork Middle Fabius Creek, Schuyler Co. $3,305 — to A. C. Longfield, LaPlata, over North Timber Creek, Adair Co. $2,788—to R. B. Potashnick, Cape Girardeau, over Drainage Ditch 5, Pemiscot Co. $5,158—to O. O. Fuller, Nevada, over stream, Barton Co. $1,401. Grand total $144,672. Noted Mar. 3.

Mo., Kansas City—See "Streets and Roads."

Nevada—State Hy. Comn., Carson City, 17 span, 850 ft. rein.-con. girder bridge over Virgin River and 0.17 mi. approach road, Clark Co., to A. O. Thorn, Strong & Grant, Springville, Utah. $112,255.

New York—A. W. Brandt, comrs. Hys., Albany, bridges in Oneida Co., to Koetteritz & Blakeslee, Little Falls, $36,436, est. $58,264—in Oneida Co., to Law Bros. Contg. Corp., Herkimer, $24,831 est. $37,957—in Madison Co., to Riteway Constr. Corp., 299 Bway., New York, $14,293 est. $22,027. Grand total $75,560. Rejected bids bridge in Steuben Co. Noted Mar. 31 under "Streets and Roads."

Pennsylvania—State Hy. Dpt., Harrisburg, taking down, moving and reassembling 109 ft. single span, through plate girder superstructure bridge, 20 ft. roadway, Route 200, Spring Creek Twp., Warren Co., to Industrial Constr. Co., 308 Euclid Ave. Bldg., Cleveland, O., $18,966. Noted Mar. 17, under "Streets and Roads."

Tennessee—State Dpt. Hys. & P. Wks., Nashville, overhead bridge, approaches over Carolina, Clinchfield & Ohio R.R. on Rd. 34 between Jonesboro and Johnson City, Washington Co. and bridge over West Fork Little Pigeon River at Sevierville on Rd. 35, Sevier Co., to E. A. Wood & Co., Cotton States Bldg., Nashville, $14,350 and $34,831 respectively.

STREETS AND ROADS

BIDS ASKED

Arizona — May 2, by State Hy. Comn., Phoenix, grading, oil processing roadbed 19.4 mi. Prescott-Ashford Hy., Yavapai Co. T. S. O'Connell, state hy. engr.

California — May 4, by H. S. Comly, dist. engr. Hy. Comn., Eureka, fuel oil treating as dust palliative 30 mi. hy. between Blue Lake and Salyer, Humboldt and Trinity Counties.

Connecticut — May 2, at office J. A. Macdonald, state hy. comr., Hartford, waterbound macadam paving 8,285 ft. hy. Portland — 17,154 ft. Weston, state will furnish rein.-con. pipe both projects — concrete encased girder bridge, approaches, Norwich—rein.-con. paving 18,217 ft. Stamford, state will furnish rein.-con. pipe and cement on both projects—2½ in. bituminous macadam on 6½ in. broken stone base paving 3,815 ft. Stratford, state will furnish c.i. and rein.-con. pipe and bituminous material—2½ in. bituminous macadam on 7½ in. broken stone base paving 8,621 ft. West Hartford, state will furnish rein.-con. pipe and bituminous material—3,680 ft. wire rope railing, New Canaan; adv. E. N.-R. Apr. 28.

Idaho—May 3, by G. E. McKelvey, comr. P. Wks., Boise, grading, crushed rock surfacing 13,000 cu.yd. Ahashka-Kendrick Hy. between Ahsahka and Cavendish, Clearwater Co.

Ill., Galesburg—See "Contracts Awarded."

Ill., Mattoon—May 2, by Bd. Supervs. Coles Co., concrete surfacing 3.0403 mi. Sect. 5-M.F.T., 9 ft. G. H. Baker, c/o State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, engr. co. roads.

Ind., Madison—May 2, by Bd. Comrs., Jefferson Co., concrete surfacing 26,326 lin.ft. Anderson Blake Rd., Graham Twp., $27,657. O. A. Stutsman, Madison, aud.

Ind., Vincennes—May 4, by Bd. Comrs. Knox Co., H. C. Sloan, aud., improving Neal, Wheeler, Like, Lett and Buckles Rds. $25,135.

Ia., Adel—May 3, at office Auditor Dallas Co., improving roads, incl. 132,453 cu.yd. end haul, 42,629 cu.yd. casting excav., 1,000 cu.yd. solid rock and 200 cu.yd. loose rock excav.

Ia., Elkador—May 5, at office Auditor Clayton Co., crushed limestone surfacing 32,400 cu.yd. roads.

Ia., Estherville—May 3, at office Auditor Emmet Co., grading, surfacing 25.5 mi. local roads, incl. 25,510 cu.yd. gravel, 153,550 units overhaul; also maintenance gravel surfacing trunk and local roads, incl. 23,095 cu.yd. gravel, 179,430 units overhaul.

Ia., Maquoketa—May 5, at office Auditor Jackson Co., grading 2.77 mi. roads, incl. 24,034 cu.yd. casting, 16,215 cu.yd. end haul, 16,606 sta. yd. overhaul.

Ia., Mason City—May 3, at office Auditor Cerro Gordo Co., gravel surfacing 57 mi. trunk and local roads, incl. 66,850 cu.yd. gravel, 265,810 units and 28,500 cu.yd. stripping. Address County Engineer or Auditor.

Ia., Nevada—May 6, at office Auditor Story Co., improving roads, incl. 56,000 cu.yd. maintenance graveling, 58,000 cu.yd. construction graveling, 1,500,000 units overhaul.

Ia., New Hampton—May 3, at office Auditor Chickasaw Co., improving 50 mi. secondary roads, incl. 43,000 cu.yd. gravel, 95,000 units overhaul.

Kentucky—May 11, by State Hy. Dpt., Frankfort, surfacing 8.6 mi. Catlettsburg-Louisa (Big Sandy) Rd., Boyd Co.—13.2 mi. Sheperdsville-Mt. Washington-Taylorsville Rd., Bullitt Co.—3.8 mi. Owensboro-Henderson Rd. (U. S. Hy. 60) Daviess Co.—8.8 mi. Prestonsburg-Pikeville Rd., Floyd Co.—5.7 mi. Beech Grove-Eastwood Ferry Rd., McLean Co.—10.5 mi. Pikeville-Williamson Rd., Pike Co.—surfacing (1) cement furnished by contractor or (2) cement furnished by state, 11.5 mi. Hopkinsville-Madisonville Rd. (U. S. Hy. 41) Christian Co.—1.5 mi. Henderson-Dickson Rd. (U. S. Hy. 41) Henderson Co.—2.65 mi. Madisonville-Hopkinsville Rd. (U. S. Hy. 41) from Erlington to Mortons Gap—4.2 mi. same road from Nortonville to point near Mannington, both Hopkins Co.—9.3 mi. Dixon-Henderson Rd. (U. S. Hy. 41) Webster Co.—grading, drainage structures 3.7 mi. Bardwell-Columbus Rd., Carlisle and Hickman Counties—8.3 mi. Williamsburg-Cumberland Falls Rd., Whitley Co.—9.1 mi. Russellville-Morgantown Rd.—grading, drainage structures, surfacing 3.5 mi. Russellville-Guthrie Rd.—4.3 mi. Russellville, Adairsville Rd., all Logan Co. H. D. Palmore, hy. engr.

Kentucky—May 18 (extended date), by State Hy. Dpt., Frankfort, grading, drainage structures 1.5 mi. Landstown-Hodgenville Rd., U. S. Hy. 31-E—rein.-con. substructure, incl. 2 piers, 2 abutments for Beech Fork River Bridge—three 140 ft. steel superstructure with concrete floor for above bridge, both on Bardstown-Hodgenville Rd., U. S. Hy. 31-A, all Nelson Co. Noted Apr. 28.

Maryland—May 3, by State Roads Comn., G. C. Uhl, chn., Baltimore, concrete shoulders 7.44 mi. Contr. G-76-611, Garrett Co.—concrete paving 1.34 mi. Contr. Ce-127 and K-67 and K-68, Cecil and Kent Counties—sheet asphalt paving 1 mi. Contr. BC-117-72, Baltimore City; adv E. N.-R. Apr. 28.

Massachusetts—May 3, by Dpt. P. Wks., A. W. Dean, engr., State House, Boston, bituminous macadam paving 39,391 ft. hy. Middleboro, Rochester and Wareham, and extending 2 rein.-con. beam bridges, Wareham — bituminous macadam paving, incl. rein.-con. extension to stone arch bridge, 5,020 ft. Auburn—concrete paving 3,000 ft. Oxford—bitulithic paving 18,477 ft. Billerica and Chelmsford.

Mass., Boston — May 6, by Park Dpt., 33 Beacon St., roadways, grading, walks, etc., at Castle Island, $25,000.

Mississippi — May 10, by State Hy. Comn.; c/o C. M. Williamson, dir., Jackson, Group A, concrete and rein.-con., Group B, sheet asphalt, rock asphalt or asphaltic concrete surface course on concrete, Group C, sheet asphalt, rock asphalt or asphaltic concrete surface course with asphaltic concrete base course and gravel sub base course surfacing 54,702 sq.yd. (3.083 mi.) Meridian-Livingston (Ala.) Rd., Federal Aid Project 117-Reopened, incl. 106.7 sq.yd. concrete bridge and slabs, Lauderdale Co. $60,000. G. A. Draper, hy. engr.

Missouri—May 5, by State Hy. Bd., Jefferson City, improving roads in Audrain, Barry, Butler, Camden, Carroll, Cedar, Christian, Clinton, Cole, Dallas, DeKalb, Franklin, Gasconade, Greene, Henry, Howell, Jackson, Johnson, Laclede, Lawrence, Oregon, Macon, Monroe, Morgan, Miller, Mississippi, Newton, Nodaway, Oregon, Pemiscot, Polk, Putnam, Reynolds, St. Charles, St. Genevieve, St. Louis, Warren and Webster Counties. T. H. Cutler, Jefferson City, state hy. engr.

Neb., Lincoln—Lancaster Co. soon takes bids grading, draining 1.5 mi. road west of Havelock—2.5 mi. 27th Rd., 7 mi. Hickman-College View Rd.—5 mi. road from Raymond to 14th St.—6 mi. Agnew-14th St. Rd.—3 mi. road south from Cheney—also concrete, steel bridge across Salt Creek on O St., in Havelock steel, concrete bridge across Oak Creek, north of Emerald. A. H. Edgren, Court House, co. engr.

N. Y., Buffalo—May 3, by W. A. Rathman, comr. P. Wks., City Hall, grading, repaving Tonawanda and Smith Sts., also street railway area in Baynes St. and Forest Ave.

N. Y., Long Island City—May 3, by G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., grading, curbing, guttering, sidewalks on Baisley Blvd., 23rd St.; 57th, 54th, Pembroke, and 41st Aves.—bituminous macadam paving 215th St.—grading, curbing, sidewalks, sheet asphalt on concrete paving 102nd, 103rd, Harman, 87th, 60th, 69th Aves. and Beach 9th, Kessel, 79th, 67th, Gilmore, 62d, 58th, 94th and 125th Sts.

N. Y., New York—May 3, by S. Levy, pres. Manhattan Boro, Municipal Bldg., grading, curbing, flagging, sheet asphalt on concrete paving West 196th St.; grading, granite block on 6 in concrete repaving Bway., Avenue D, Ferry and West 26th Sts.

Ohio—O. W. Merrell, hy. dir., Columbus, cancelled bids Apr. 15, grading, draining, concrete paving 2.903 mi. Sect. "G" Piqua-Sidney Rd., Shelby Co., $86,090; grading, draining, paving with brick except brick 0.488 mi. Sects. "B" and "C" Canton-Navarre Rd., Stark Co., $24,391; contract for furnishing and delivering brick, $5,311. Noted Apr. 7.

O., Cincinnati—See "Airports."

Oklahoma—May 3, by State Hy. Dpt., Oklahoma City, grading, drainage structures, paving 6 mi. State Aid Project 52-R, at Stonewall, 32 ft., Pontotoc Co., $125,000; grading, drainage structures 4.1 mi. State Hy. 34, near Moorewood, 32 ft., Custer Co., $25,000. C. L. Wilson, hy. engr.

Pennsylvania—May 6, by State Hy. Dpt., Harrisburg, bituminous surface treated macadam surfacing 1.99 mi. Routes 87 and 272, Erie Co.—bituminous surface treated macadam on native stone surfacing 6.7 mi. Route R-575 Paupac and Salem Twps., Wayne Co.—bituminous surface treated on native stone base course, or rein.-con. surfacing 6.75 mi. Route R-440, Newton and Ransom Twps., Lackawanna Co.—one course rein.-con. surfacing 0.66 mi. bridge floor, 34 ft., city of Bradford, McKean Co.—3 rein.-con. and 7 rein.-con. arch bridges, Route R-495 Erie Co.—rein.con. bridge at Erie, Erie Co.—rein.-con. bridge, rein.-con. box culvert, grading approach, Route 440 Lackawanna Co.—4 rein.-con. bridges, 4 rein.-con. box culverts, Route R-575 Wayne Co. S. S. Lewis, secy.

•**Pa., Kingston**—May 2, by A. P. Keirle, boro secy. furnishing, applying 50,000 gal. bituminous materials on streets. R. L. Williams, 31 Price St., engr.

Tennessee—May 6, State Dpt. Hys. & P. Wks., Nashville, paving 0.13 mi. State Hy. 34 in Greenville, Municipal Project 29, Greene Co.—0.969 mi. State Hys. 3 and 22 in Union City Municipal Project 28, Obion Co.—grading, drainage structures 0.398 mi. State Hy. 20 at Lexington, State Aid Project 376-C, Henderson Co.—0.918 mi. State Hy. 53 between Jouett Creek and Route 42, incl. bridge over 20 ft. Span, State Air Project 387-F Pickett Co. R. H. Baker, hy. comr.

Tex., Galveston—May 3, by Galveston Co., I. Predecki, aud., surfacing brick pavement, seawall Boulevard from Avenues B to J, involving 19,652 sq.yd. surfacing, 175 tons materials.

Utah—May 4, by State Road Comn., Salt Lake City, grading, graveling 17,700 cu.yd. Midland Trail, Utah Co. $90,000. H. S. Kerr, state hy. engr.

Va., Richmond—May 17, at office R. K. Compton, dir. P. Wks., City Hall, grading 9,800

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Streets and Roads (Continued)

cu.yd., sheet asphalt or warrenite-bitulithic on 6 in. concrete paving 26,500 sq.yd., one course concrete paving 5,900 sq.yd. streets; adv. E. N.-R. Apr. 28.

Wash., Yakima—Comrs. Yakima Co. bids about May 13, grading, graveling 7.25 mi. Wilcox Rd. O. E. Brashears, Yakima, co. engr.

Wisconsin—May 6, by State Hy. Comn., Lancaster, graveling, crushed rock paving 9.5 mi. Boscobel-Readstown and Boscobel-Gotham Rds., State Trunk Hys. 27 and 60, Crawford Co.—graveling 17.65 mi. Gotham-Crawford Co. Line Rd., S.T.H. 60, A.F.E. 52-03, Richland Co.—crushed stone paving 8.5 mi. Mount Sterling-Viroqua Rd., U. S. Hy. 61, A.F.E. 12.04, Crawford Co.—6.2 mi. Rockville-Lancaster Rd., U. S. Hy. 61, A.F.E. 22-03, Grant Co.—4.7 mi. Belmont-Plattsville Rd., U. S. Hy. 118, A.F.E. 33-05, Lafayette Co.—1.5 mi. Argyle-Monroe Rd., S.T.H. 14, A.F.E. 33-06, Lafayette Co.—18.35 mi. Montfort-Prairie du Chien Rd., Sect. 1, U. S. Hy. 18, A.F.E. 22-04, Grant Co.—18.7 mi. same road Sect. 2—6 mi. Darlington-Seymours Corners Rd., S.T.H. 14, A.F.E. 33-03 Lafayette Co.—mine tailings surfacing 6 mi. same road—2 mi. Benton-Hazel Rd., S.T.H. 20, A.F.E. 33-04, Lafayette Co.

Wisconsin—May 6, by State Hy. Comn., Lancaster, furnishing 1,176,000 gal. tar type B; 1,190,000 gal. asphalt type C, and 304,000 gal. asphalt type CC 50-60; applying 428,000 gal. bituminous material, Crawford Co.—366,000 gal. asphalt type C, 50-60 and asphalt type CC 50-60 Grant Co.—50,000 gal. tar type B, Grant Co.—424,000 gal. asphalt type C 50-60 and asphalt type 50-60, also 176,000 gal. tar type B, Iowa Co.—324,000 gal. bituminous material, Lafayette Co.

Wis., Milwaukee—May 2, by Dpt. P. Wks., grading, vibrolithic concrete paving 18,599 sq.yd. West Eggert Pl., North 40th, North 41st, West Hope and North 75th Sts., $35,140—concrete paving 974 sq.yd. North 7th Lane $1,220—improving West Locust St. $2,780—2,132 sq.ft. sidewalks on West Stark St. $340. R. E. Staetling, comr.

Ont., Barrie—See "Contracts Awarded."

CONTRACTS AWARDED

California—State Hy. Comn., Sacramento, grading, concrete surfacing 8.3 mi. state hy. from Avenues 62 to 74, to Lee Moor Constr. Co., Two Republics Bldg., El Paso, Tex., c/o R. H. Richards, supt., Hayward Hotel, Los Angeles, $257,301.

California — C. H. Purcell, engr. State Hy. Comn., Sacramento, grading 7.6 mi. hy. between Palm Flat and Mariposa, Mariposa Co., to C. Harlowe, Jr., 5122 Lakeshore Dr., Oakland, $185,062—bituminous treated crushed gravel or stone on crusher run surfacing 14.2 mi. hy. between Bridgeport and Sonora Junction, Mono Co., to G. Herz & Co., 311 Platt Bldg., San Bernardino, $85,855—grading, concrete surfacing 6 mi. hy. between Avenue 74 and southerly boundary line, Riverside Co., to United Concrete Pipe Corp., Box 1, Station H, Los Angeles, $286,806. Grand total $557,723. Noted Mar. 31.

Calif., Los Angeles—Bd. P. Wks., City Hall, removing present pavement, walls, gutters and grading, curbing, guttering, sidewalks, concrete walls, ornamental lighting system, storm and sanitary sewers, 7,119 tons asphaltic base in place, 4,547 tons asphaltic concrete wearing surface, oiled roadway remodeling 1,043 sq.ft., resurfacing 8,751 sq.ft., 6 and 8 in. concrete paving 180,325 sq.ft. Temple St., from Bway. to Parkview, to Southern California Roads Co., 2235 East 25th St., $257,008. Noted Feb. 4.

Calif., Santa Rosa—G. P. Sanborn, clk. Sonoma Co., to Highway Builders Ltd., 640 Redhill Ave., San Anselmo, asphaltic oil surfacing 16 mi. roads in 2nd Supervisorial Dist., $12,322; 11.75 mi. 5th Supervisorial Dist. $10,117, 11.3 mi. 4th and 5th Supervisorial Dists. $8,123—to G. French, Jr., P. O. Box 675, Stockton, bituminous treated surfacing 1 mi. Washington St., between Elmore and Adobe Rds., $2,258. Grand total $32,820. Rejected bids asphaltic oil surfacing 15 mi. 1st, 2nd and 3rd Supervisorial Dists., work will be done by county forces, under supervision E. A. Peugh, co. surv. From A. Helwig, Sebastopol, bituminous treated road mix surfacing 10 mi. 2nd Supervisorial Dist., project under advisement. Noted Apr. 7.

Connecticut—J. A. Macdonald hy. comr., Hartford, surface drainage Fairfied, to Julius Varvelli, Inc., 375 Columbus Ave., New Haven, $4,854—rein.-con. paving 14,532 ft. hy. Milford to Osborne-Barnes Co., Odd Fellows Bldg., Main St., Danbury, $92,884—bridge, Middlebury, to E. Vitale, Torrington, $1,365. Grand total $99,103. Noted Apr. 14.

Delaware—State Hy. Dpt., Dover, grading, borrow, laying concrete 4.32 mi. Fieldsboro-Drawyers Rd., Contr. 182C, Kent Co., to Union Paving Co., 1626 Arch St., Phila., Pa., $131,164—grading, borrow, laying road 3.36 mi. Dublin Hill-Jacobs Cross Roads, Contr. 153, New Castle Co., and grading, borrow, concrete paving 4.8 mi. Bryan's Store-Hardscrabble Rd., Contr. 187A, Sussex Co., to Old Line Constr. Co., Chestertown, Md., $17,483 and $87,000 respectively—clearing, grubbing, grading, borrow 4.38 mi. Fisher's School-Farmington Rd., Contr. 226, Sussex Co., to I. V. A. Huie, Saugerties, N. Y., $59,695—borrow and laying sidewalk 2,900 ft. North 3rd St., Contr. 251 Sussex and Delmar Counties, to W. B. Elliott, Delmar, $2,773. Grand total $298,115. Noted Mar. 24.

Georgia—State Hy. Bd., Atlanta, to Whitley Constr. Co., La Grange, paving 4.482 mi. McDuffie Co., $76,382; 7.762 mi. Thomas Co., $144,108; 9.5 mi. Madison Co., $180,193—to H. E. Wolfe Constr. Co., St. Augustine, Fla., 8 mi. Montgomery and Toombs Counties, $120,928—to Davis Constr. Co., Rhodes-Haverty Bldg., Atlanta, paving 3.089 mi. Stephens Co., $64,520; 4.688 mi. Wilkes Co., $86,590—to Broadbent Constr. Co., paving, 3 bridges 13.115 mi. Pierce and Wayne Counties, $253,663; paving and 3 bridges 12.806 mi. Taylor Co., $249,673—to Davis & Co., Moultrie, 3 bridges on Ludowici-Hinesville Rd., Long Co., $7,298; paving 7.227 mi. same road, $44,284—to J. B. McCrary Co., Citizens & Southern Bank Bldg., Atlanta, paving 4.973 mi. Douglas Co., $87,657—to W. J. Tidwell, Jr., Douglasville, 1 overhead bridge Americus-Butler Rd., Taylor Co., $8,314—to A. Lyons, Rogersville, Tenn., 1 overhead bridge Bremen-Heflin Rd., Haralson Co., $3,634; 1 overhead bridge Marietta-Canton Rd., Cherokee Co., $2,864—to Way Constr. Co., Valdosta, 5 bridges on Jeffersonville-Dublin Rd., Laurens Co., $18,348—to Austin Bros. Bridge Co., 1195 Mickleberry St. S. W., Atlanta, 5 bridges on Athens-Elberton Rd., Elbert Co., $11,244—to M. R. Woodall Co., Inc., 1594 Lakewood Ave., Atlanta, paving, constructing 1 bridge 5.645 mi. Cherokee Co., $139,221—to Manley Constr. Co., Ocala, Fla., paving 9.002 mi. Mitchell Co., $150,305. Grand total $1,649,226. Noted Apr. 14.

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Illinois—State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, concrete surfacing 7.68 mi. Route 92, Sect. 140, to Trompeter Constr. Co., Peru, $114,459.

Ill., Galesburg—Bureau County Roads Knox Co., grading, drainage structures, gravel surfacing 22 mi. various roads, est. $107,000; also various bridges, culverts on Projects M.F.T., incl. 2,424 lin.ft. wooden piling, 71,890 lb. structural steel, 440 cu.yd. rein.-con. by own forces. A. R. Smith, Galesburg, engr.

Ill., Urbana—Champaign Co., concrete surfacing 17.4 mi. roads, Combination B, Sects. 82 to 85 (inclusive) M.F.T. and Combination A, 86 and 89-15d, to Hartmann-Clark Bros. Co., 920 Peoria Life Insurance Bldg., Peoria, $100,138 and $92,950 respectively. Noted Apr. 7.

Ill., Waukegan—Lake Co., 9x7x9 in. concrete surfacing 60,279 sq.yd. State Aid Route 16, Sect. 47-15d, Druce-Lake-Gages Lake Rd., to Darrow & Barron Constr. Co., Waukegan, at $1.31 per sq.yd., total $133,981.

Indiana—State Hy. Comn., Indianapolis, grading, drainage structures, 7 x 9 x 7 in. concrete surfacing 136,731 mi. Tell City-Leopold Rd., Perry Co., to Foulkes Constr. Co., 705½ Ohio St., Terre Haute, $191,332. Est. $262,152. Noted Mar. 24.

Indiana—State Hy. Comn., Indianapolis, paving 0.084 mi. east approach to Vincennes Bridge over Small Creek, Project 100, 78-C1, Rd. 50, Knox Co., to Premier Constr. Co., 1027 Lemcke Bldg., Indianapolis, $4,748 est. $5,663; grading, drainage structures, concrete surfacing 49,821 sq.yd. Rd. 150, Federal Aid Project 215, Clark and Floyd Counties, to Quinn Constr. Co., Bedford, $97,685 est. $20,201. Noted Feb. 18.

Ia., Boone—Boone Co., W. Bennett, aud., gravel surfacing 38,000 cu.yd., maintenance gravel surfacing 40,000 sq.yd. roads, to M. Munsen & Sons, Boone, $54,680; 8, 10, 12, 15 and 24 in. culvert pipe and couplings, to Klauer Mfg. Co., 9th and Washington Sts., Dubuque, $7,071.

Ia., Clinton—Clinton Co., grading secondary roads, to Foley Bros., Anamosa, $44,934; constructing 8 box culverts, 5 I-beam bridges, reconstructing 2 trusses, to A. Olson Constr. Co., Waterloo, $23,700.

Kan., Kansas City—Grading, curbing, 3 in. bituminous filled brick on 8 in. concrete paving 19,000 sq.yd. 7th Street Trafficway from Missouri Pacific R.R. to Quindora Blvd., to J. A. Tobin Constr. Co., 226 West 39th St., Kansas City, Mo. $79,181. Est. $80,000. Noted Mar. 28.

Kan., Wichita—C. C. Ellis, city clk., to Globe Constr. Co., 1069 North Water St., improving Orme St., Wabash, Gordon and Lorraine Aves., 6,616 sq.yd. concrete paving at $1.39 per sq.yd., 3,065 cu.yd. excav. at 70c. per cu.yd., 33,070 lb. reinforcing steel, at 3c. per lb.; to V. W. Lefever, 1328 Fannie St., improving various streets 3,140 ft. curbing at 34c. per ft., 1,150 ft. gutters 39c. 19,610 ft. curb and gutter 65c. Noted Mar. 31.

Kentucky — State Hy. Dpt., Frankfort, grading, drainage structures, using 1st class rein.-con. pipe 10.575 mi. Claysville-Mt. Olivet Rd.; S.A.P. 172-BG, Robertson Co., to F. J. Snider, Frankfort, $44,134; grading, drainage structures, river gravel surfacing 21.243 mi. Carrollton-Gratz Rd., S.A.P. 230-ABC-GS, Henry and Carroll Counties, to Southeastern Constr. Co., Emminence, $250,318. Noted Mar. 3.

Kentucky—State Hy. Dpt., Frankfort, surface mix treating, using light oil and asphalt cutback 6.456 mi. Cynthiana-Brooksville Rd., S.A.P. 58½ C1S, Harrison Co., to Kaiser Transportation Co., Buechel, $61,300. Noted Feb. 4.

Kentucky—State Hy. Dpt., Frankfort, grading, drainage structures, using 1st class rein.-con. pipe 10.88 mi. Princeton-Gracey Rd., S.P. 280-BG, Caldwell Co., to Bell & Bell, 101 Broad St., Nashville, Tenn., $71,726—12.164 mi. London-Somerset Rd., F.A.P. 195-AG, Laurel Co. to Myers Bros., Campbellsburg, Ind., $80,967—2,342 mi. Benton-Mayfield Rd., S.A.P. 1-EG, Marshall Co., to Frazer & Cocke, Wickliffe, $20,220. Grand total $172,923. Noted Mar. 17.

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, sheet asphalt paving 1.14 mi. Contr. Bc-116-72, Baltimore City, to P. Flanigan & Sons, Hartford Rd. and Baltimore & Ohio R.R., Baltimore, $64,571; concrete shoulders, combination curbing and guttering 0.5 mi. Contr. B-246-411, Baltimore Co., to Reddington & Son, 2 East Lexington St., Balt more, $6,378. Noted Apr. 14.

Mass., Everett—Metropolitan Dist. Comn., 2 Somerset St., Boston, widening Revere Beac Parkway, from Fellsway to Saugus Bran Bridge, to M. McDonough Co., Malden, $9,20

Mass., Newton—City, concrete sidewalks o Walnut St., et al, to John MacDonald Const Co., 215 California St. Est. $25,000.

Missouri—State Hy. Bd., Jefferson City, to Allen, McCredic, 13.8 mi. Madison Co. $11,17 4.3 mi. St. Francis Co. $257; 5.7 mi. Iron Co. $2 —to Rock Hill Asphalt Concrete Co., St. Loui graveling 24.7 mi. Randolph and Macon Countie $14,346—to J. A. Kerr, Ozark, 27.8 mi. St Clair Co. $11,174—to C. E. Rich & Co., Troy 11 mi. St. Charles Co. $5,048—to R. B. Potashnick, Cape Girardeau, 13.8 mi. Dunklin Co $4,674—to Gaines Bros., St. Clair, 14.6 mi Camden Co. $5,588—to Samples & Elsea, Kirksville, 10.3 mi. Adair Co. $1,358; 13.2 mi Schuyler Co., $1,877—to Kiefner & Girle, Perryville, 9 mi. Jefferson Co., $1,543; 8.5 mi Jefferson Co. Rd. S, $2,651; 10.1 mi. Potosi Rd. North and South, $4,105; 10.5 mi. Caledonia Rd. N., $3,688, all foregoing Washington Co.—to M. Wunderlich, Jefferson City, 4.5 mi. Norwood Rd. E. $980; 5.5 mi. Mount Grove Rd. W, $1,796, both Wright Co.; 6.6 mi. Gasconade Co., $1,403; 3 mi. Steelville Rd. S. $528 2.2 mi. Leasburg-Route 66 Rd., $1,065, both Crawford Co.; 12 mi. Houston Rd. S, $1,745 14 mi. Houston Rd. N, $5,917; 3 mi. Cabool Rd. Sect. M4, $248; 7.8 mi. Sect. M2 same road, $1,776; 9.8 mi. Sect. ML, same road, $3,275; 7 mi. Mount Grove-Route SM Rd., $1,756, all foregoing Texas Co.—to W. Knox & Sons, Jackson, 11.6 mi. Danby Rd. N., Jefferson Co., $5,985; 7.5 mi. Bloomsdale Rd. N., St. Genevieve Co., $3,630. Grand total $97,864.

Missouri — State Hy. Bd., Jefferson City, to Cameron Joyce & Co., Keokuk, Ia., grading, concrete paving 4.976 mi. Bowling Green-Vandalia Rd., Pike Co. $60,532; 4.865 mi. Laddonia Rd. S., $45,003; 3.56 mi. Mexico-Scott's Corner Rd., Route 54, Sect. 126A, $38,315; 3.82 mi. same road Sect. 126B, $43,591; 4.965 mi. same road Sect. 126C, $42,405, all foregoing Audrain Co.—to C. H. Atkinson Paving Co., Chillicothe, 3.484 mi. Macon-Moberly Rd., Route 63, Sect. 345A, $33,023; 3.721 mi. Sect. 345B, same road, $36,598, both Macon Co.; grading 2.67 mi. Lowning Rd. S., Schuyler Co. $8,038—to Davis Constr. Co., Inc., Boonville, grading, concrete paving 2.056 mi. St. Clair-Cedar Hill Rd., Route 30, Sect. 351A, $43,577; 4.443 mi. same road, Sect. 351B, $78,190; 2.489 mi. same road Sect. 351C, $27,641; 2.828 mi. same road Sect. 351D, $30,445, all foregoing Franklin Co.; 3.09 mi. same road Sect. 259G, $56,073; 3.096 mi. same road Sect. 258H, $51,290, both Jefferson Co.—to Kelly & Underwood, Granby, 3.621 mi. Jefferson City-California Rd. Sect. 1E, $35,965; 3.403 mi. same road Sect 1F, $34,830; 3.402 mi. same road Sect. 1G, $31,749; all foregoing Cole Co.—to Derring & Davidson, Inc., St. Louis, 2.062 mi. Lexington-Waverly Rd., U. S. 24, Sect. 332B, $33,281; 0.985 mi. same road Sect. 332C, $11,943; 4.152 mi. Sect. 332D, same road, $52,464; 3.98 mi. Sect. 332E, same road, $48,852; 4.015 mi. same road, Sect. 332F, $52,067, all foregoing Lafayette Co.—to Nolan Bros. Co., 18 North 2nd St., Minneapolis, Minn., 4.524 mi. Eldron Rd. S, Route 54, Sect. 58A, $53,595; 3.977 mi. same road, Sect. 59A, $44,996; 4.284 mi. same road, Sect. 60A, $52,664; 0.191 mi. same road, Sect. 61A, $2,148, all foregoing in Miller Co.—to Brosnahan Bros., 218 City Bank Bldg., Kansas City, 4.547 mi. Route 65, Rd. E, Route 60, Sect. 190B, $84,446; 4.125 mi. same road, Sect. 190A, $77,307, both Greene Co. — to Sandy Hites Co., Kansas City, 3.427 mi. Bridgeton Rd.-Route 99 Rd., Sect. 3, $82,486; 2.562 mi. same road, Sect. 4, $51,284—to J. Kesl & Sons Co., Edwardsville, Ill., 1.819 mi. Bowling Green-Vandalia Rd., U. S. 54, Sect. 275E, $25,839; 3.493 mi. same road, Sect. 275G, $36,604, both Pike Co.; grading, graveling and concrete paving 0.627 mi. Malden-Route 61 Rd., Route 62, Sect. 5A, New Madrid Co., $7,555; graveling 0.348 mi. Van Buren-Rd. NW, Carter Co., $3,110—to D. Scherrer Constr. Co., Kansas City, grading 0.775 mi. Maitland Spur, Sect. 342D, $1,537; 3.855 mi. Route 1-Nodaway Co. Rd., Route 113, Sect. 342A, $18,938; 4.23 mi. same road, Sect. 342B, $21,464, all foregoing in Holt Co.—to Nevada Constr. Co., Nevada, 1.863 mi. Route 169-Helena Rd., Route SV, Sect. 1, Andrew Co. $5,064—O. O. Fuller Co., Nevada, 4.733 mi. Route 160 Rd. N, R. SA, Sect. 1, Barton Co. $6,832—to M. E. Gillioz, Monett, 4.489 mi. Harrisonville-Clinton Rd., Route 35TR, Sect. 18, $14,199; 3.314 mi. same road, Sect. 19, $16,012, both Cass Co.; graveling 3.409 mi. Cassville-South Rd., Route 112AP, Sect. 1A, $2,248; 3.877 mi. same road, Sect. 2A, $2,036, both Barry Co.; 2.92 mi. Route 66-Dixon Rd., Route 28, Sect. 1, Pulaski Co. $13,687; 4.537 mi. Bunker-Stone Hill Rd., Sect. 7, Dent Co. $26,898—to Lobor Constr. Co., Boonville, 4.03 mi. Senath Rd. S, Dunklin Co. $11,060—to A. E. Keith Constr. Co., City Bank Bldg., Kansas City, 2.553 mi. Damsite-Linn Creek Rd., Camden Co. $16,486 — to E. K. Porter, Carrollton, 3.786 mi. St. Francis-Co. Rd. E. Ste. Genevieve Co. $20,490—to A. C. Longfield, La Plata, 4.28 mi. Route 6-Gibbs Rd., Adair Co. $13,467 — to Carson-Cuddy Constr. Co., Brunswick, 3.945 mi. Green City-Green Castle Rd., Sullivan Co. $23,374 — to Neyer Constr. Co., Billings, 4.542 mi. St. James-Salem Rd., Sect. 3A, $2,673; 4.432 mi. same road, Sect. 4A, $2,608; 3.513 mi. Sect. 5A, same road, $2,067, all foregoing Phelps Co.—to M. Wunderlich, Jefferson City, 4.201 mi. Vandalia-Rd. S, Route SW, Sect. 2, $7,396; 0.987 mi. same

Equipment (Continued)

road, Sect. 3, $2,078, both Audrain Co.; 4.736 mi. Harrisburg-Route 63, Sect. 7, $12,883; 3.088 mi. Sect. 8, same road, $14,053, both Boone Co.; 2.671 mi. Buell-Middletown Rd., R. SD, Sect. 3, $9,738; 2.737 mi. same road, Sect. 4, $7,553, both Montgomery Co.; 2.306 mi. Route 61-Rd. W, Pemiscot Co. $6,929—to Richmond Constr. Co., Advance, 4.943 mi. Bertrand-Route 105 Rd., $2,552; 4.006 mi. same road, Sect. 2, $2,368, both Mississippi Co.—to Fellin Bros., Marshfield, 2.32 mi. Brunswick Rd. N, Sect. M4A, $1,554; 2.558 mi. same road, Sect. M5A, $1,751; 3.664 mi. same road, Sect. M6A, $2,556, all foregoing Chariton Co.—to R. B. Potashnick, Cape Girardeau, 2.109 mi. Carter Rd. E, Sect. 2, $5,911; 2.57 mi. Route SE-Brasher Rd., $5,930; 2.776 mi. same road, Sect. 3, $6,684, both Pemiscot Co.—to Bunnell & Mack Constr. Co., Paragould, Ark., 4.038 mi. Hunterville-Rd. S, Stoddard Co. $14,587; 3.22 mi. Perry Co. Rd. S, Sect. 13, $16,351; 3.07 mi. same road, Sect. 12, $20,803, both Bollinger Co.—to J. L. Pohl, Nevada, shale surfacing 4.024 mi. Hartford-Rd. S, Sect. 3, Putnam Co. $11,800. Grand total $1,792,523. Noted Mar. 3.

Missouri—State Hy. Bd., Jefferson City, to Hartman-Clark Bros., Peoria, Ill., grading, concrete paving 1.642 mi. Canton Rd. S, Sect. 38A $25,006; 4.43 mi. Sect. 39A same road $77,077; 3.272 mi. same road Sect. 39B $44,650; 3.071 mi. Sect. 347A same road $31,895; all foregoing Lewis Co.—to Garrett Constr. Co., Springfield, 0.605 mi. Marshfield Spur, Webster Co. $19,285—to Hoeffken Bros., Belleville, Ill., 3.87 mi. Sedalia-Tipton Rd., Sect. 244 B, $40,352; 3.954 mi. Sect. 244C, $38,824, both Cooper Co.; 3.51 mi. Morgan Co.—California Rd., Sect. 327A, $37,590; 4.886 mi. Sect. 327C same road, $44,126; 1.073 mi. same road Sect. 327B, $10,852; 4.912 mi. Sect. 327D same road 51,451; all foregoing Moniteau Co.; 0.625 mi. Pettis Co.-Cooper Co. Rd., Sect. 244A, $6,165; 4.544 mi. Cooper-Moniteau Co. Rd., Sect. 244D, $44,952, all foregoing in Morgan Co.—to C. H. Atkinson Paving Co., Chillicothe, 4.285 mi. Macon-Moberly Rd. Sect. 266A, $24,538; 4.983 mi. Sect. 266B same road $20,750; 2.525 mi. same road Sect. 266C, $10,633, all foregoing Randolph Co.—to Pope Constr. Co., Jefferson City, 3.56 mi. St. Joseph-Union Star Rd., Sect. 315E, $42,813; 3.583 mi. same road Sect. 315F, $41,016; both Andrew Co.; 4.023 mi. same road Sect. 315G, $46,274; 2.893 mi. Gentry-Route 31 Rd., Sect. 247A, 15,582, both DeKalb Co.—to Independent Constr. Co., Pittsburg, Kan., 3.675 mi. Richmond-Excelsior Springs Rd., Sect. 270B, $21,750; 3.354 mi. same road Sect. 270D, $20,166; 3.695 mi. Sect. 270C same road $22,142; 3.693 mi. same road Sect. 270A, $23,079, all foregoing Ray Co.—to Sandy Hites Co., Kansas City, 3.301 mi. Harrisonville Rd. N, Sect. 348B, $41,708; 2.857 mi. same road Sect. 348A, $32,355, both Cass Co.—to P. McGlone, Harrisonville, 3.357 mi. Altamont-Gallatin Rd., Sect. 15, $19,559; 3.295 mi. Sect. 14B same road, $17,779—to E. L. Markham, Cape Girardeau, 1.662 mi. Dexter-Essex Rd., Sect. 179A, $17,976; 3.887 mi. Sect. 118D same road $43,460; 1.44 mi. Thru Dexter Rd., Stoddard Co. $18,649—to Kelly & Underwood, Granby, 3.721 mi. California-Cole Co., 327E; $46,565; 3.606 mi. Sect. 327F same road, Moniteau Co. $43,616—to Service Constr. Co., Poplar Bluff, graveling 3.326 mi. Thornfield-Long Run Rd., Sect. 4, Ozark Co. $18,102; 3.581 mi. same road Sect. 5, $17,094, both Ozark Co.—to J. L. Pohl, Nevada, 4.57 mi. Route 71-Clay Rd., Sect. 3A, Platte Co. $2,606; 4.6 mi. same road Sect. 4A, $3,020, both Platte Co.—to Richmond Constr. Co., Advance, 4.236 mi. Braggadaccio-Route 61, Sect. 1, $6,477; 2.563 mi. same road $6,213, both Pemiscott Co., 3.859 mi. Route 25-Scott Co. Rd., Cape Girardeau Co. $10,772—to M. Wunderlich, Jefferson City, 3.911 mi. Eldorado Spring-Collins Rd., Sect. 81, $22,011; 3.93 mi. same road Sect. 82, $20,309; 3.807 mi. Sect. 83 same road $23,288; 3.583 mi. Sect. 84, $46,001; 3.707 mi. Sect. 86, $24,170; 3.499 mi. Sect. 87, $16,577; 2.967 mi. Sect. 88 $22,232; all foregoing St. Clair Co.; 1.582 mi. Thru Perry Rd., Ralls Co. $13,639; 0.304 mi. Thru Center Rd., $1,895; 0.852 mi. Thru New London Rd., $3,986, all foregoing Ralls Co.—to C. W. Rose, Brookfield, 3.75 mi. Route 6-Laredo Rd., Sect. 1 $10,393; 1.486 mi. same road Sect. 2, $4,463—to H. H. Ruddell, Springfield, 4.563 mi. Ava Southwest Rd., Sect. 3, $9,869; 3.028 mi. same road Sect. 4, $7,647, all foregoing Douglas Co.—to A. Melberg, Cedar Rapids, Ia., 0.22 mi. Naginger-Kirsville Rd., Adair Co. $1,667—to Nevada Constr. Co., Nevada, 5 mi. Route 65-Harris Rd., Mercer Co. $13,369—to Neyer Constr. Co., Billings, 3.174 mi. Eldon-Tuscumbra Rd., Miller Co. $14,371—to F. W. Whitehead, Kohoka, 0.545 mi. Shelbina-Paris Rd., Monroe Co. $5,419—to Samples & Elsa, Kirksville, 1.511 mi. Centralia Rd. N, Audrain Co. $3,292—to C. L. Johnson, Warrensburg, 3.686 mi. Norborne Rd. N, Carroll Co. $8,975. Grand total $1,380,493. Rejected bids April 7 in Dent Co. Noted Mar. 31.

Mo., Kansas City—City, 3 in. brick on 8 in. concrete paving 19,000 sq.yd. 7th St., to J. A. Tobin Constr. Co., 226 West 39th St., $79,181—storm sewer in 7th St. and Walker Ave., to H. Spitcaufsky, 3229 Victory St., $6,467—supplemental sewer in Dist. 17 and extending culvert under intersections 18th St., Trafficway and Minnesota Ave., to Brown Bros., 24th and Steele Rd., Kansas City, Kan., $5,628 and $1,679 respectively—widening 7th Street Bridge, to E. J. Wetterstrom, 76 South James St., Kansas City, Kan., $7,453. Grand total $100,408. Received no bids on paving Greeley Ave., 14th and 42nd Sts. Will readvertise.

Mo., St. Louis—Bd. P. Serv., City Hall, to Kunze Constr. Co., 5926 Scanlon Ave., concrete paving 5,100 sq.yd. Hampton Ave. $12,373—to Perkinson Bros. Constr. Co., 3237 Carter Ave., rein.-con. paving 2,840 sq.yd. Bittner St. $6,529; 3,860 sq.yd. Regal Pl. $8,634; alley in City Block 4348S $2,438—to Skrainka Constr. Co., Security Bldg., vibrolithic concrete paving 5,725 sq.yd. Hymans Pl. $15,235—to Granite Bituminous Paving Co., Railway Exch. Bldg., warrenite bitulithic paving 5,565 sq.yd. Bent Ave. $19,260—to Eyermann Contg. Co., 1210 South Grand Blvd., alleys in City Blocks 2836, 2858, 2934, 3037, 4066, 4192 and 5765 $9,722—to Chase Constr. Co., 5230 Devonshire Ave., alley in City Block 4628N $933. Grand total $75,124. Noted Mar. 24.

Nebraska—State Dpt. P. Wks., Lincoln, to Abel Constr. Co., 308 Terminal Bldg., Lincoln, sand graveling 18.5 mi. Brown and Rock Counties, $764 and $7,327 respectively—9.3 mi. Howard and Sherman Counties $4,569; 10.5 mi. Lancaster Co. $4,329; 15 mi. Saunders and Butler Counties $5,858; 21.5 mi. Butler and Seward Counties $7,318 and $3,865 respectively; 16 mi. Brown Co. $578—to D. Camp, Gibbon, 11.6 mi. Polk Co. $1,288; 12 mi. Polk Co. $4,884; 10.8 mi. Polk Co., $2,465; 20.2 mi. Polk and Butler Counties, $5,146—to Central Bridge & Constr. Co., Wahoo, 1.8 mi. Dodge and Saunders Counties, $446; 10 mi. Saunders Co., $4,371—to Roberts Constr. Co., 404 1st Natl. Bank Bldg., Lincoln, 10 mi. Couster Co., $2,997; 13.4 mi. York Co., $3,274; 1.8 mi. Cass Co., $649; 12.1 mi. Nance Co., $2,605; 15.5 mi. Boone Co., $5,538; 23.3 mi. Boone and Madison Counties, $9,071; 18.6 mi. Antelope and Boone Counties, $12,616; 10.2 mi. Madison Co., $3,606; 26.6 mi. Cuming and Thurston Counties, $8,908; 14.8 mi. Cuming, Burt and Thurston Counties, $5,207; 10.1 mi. Valley Co., $4,364; 7.5 mi. Howard Co., $1,450; 10 mi. Sherman Co., $3,018; 4.6 mi. Howard Co., $880; 20.4 mi. Clay Co., $7,031; 11.5 mi. Adams Co., $1,905; 2.9 mi. Adams Co., $1,275; 1.3 mi. Grant Co., $886—to L. C. Sokol, Duncan, 10 mi. York Co., $2,587—to Carstenson Sand Co., Columbus, 8.5 mi. Antelope Co., $3,049—to R. L. Ferris, Boelus, 13.6 mi. Antelope Co., $2,311—to Koehler Constr. Co., Sterling, 14.3 mi. Lancaster and Otoe Counties, $8,923; 19 mi. Madison, Pierce and Wayne Counties, $10,758; 16.9 mi. Otoe and Cass Counties, $7,354; 9 mi. Dixon and Wayne Counties, $3,971; 13 mi. Clay Co., $6,519; 25 mi. Gage and Johnson Counties, $11,492; 20 mi. Johnson and Nemaha Counties, $9,338—to Western Bridge & Constr. Co., 3867 Leavenworth St., Omaha, 12 mi. Pierce Co., $4,701; 9.2 mi. Pierce and Knox Counties, $5,384; 10.3 mi. Knox Co., $5,013; 20.9 mi. Knox and Cedar Counties, $7,372; 11.7 mi. Thurston Co., $4,129—to J. N. Einung, Wayne, 14.1 mi. Cedar Co., $3,147; 12.6 mi. Cedar and Dixon Counties, $4,429; 12.7 mi Dixon Co., $3,431; 5.3 mi. Clay Co., $1,730; 15.5 mi. Furnas and Harlan Counties, $7,572—to Haubrich Constr. Co., Mapleton, Ia., 12.1 mi. Dixon and Dakota Counties, $4,685; 15.1 mi. Dixon Co., $5,273—to F. Ulrich, Ord, 13.8 mi. Valley and Greeley Counties, $3,333—to A. C. Lund, Kearney, 13.4 mi. Buffalo Co., $2,922; 12.3 mi. Dawson and Buffalo Counties, $1,894—to L. G. Crownover, Lincoln, 6.4 mi. Merrick and Hamilton Counties, $789; 10.7 mi. Merrick and Nance Counties, $2,055; 5.2 mi. Hamilton Co., $1,420—to M. M. Lippincott, Hastings, 9 mi. Hall Co., $821; 5.9 mi. Hall Co., $1,376; 16.7 mi. Hall and Adams Counties, $3,467; 5.9 mi. Hall Co., $1,367—to E. W. Nichols, Fairmont, 7.2 mi. Hamilton Co., $1,703; 13 mi. Clay Co., $6,887—to Geis & Sack, York, 4.6 mi. Hamilton Co., $642—to P. C. Baker, Morrill, 20.9 Adams and Webster Counties, $7,346; 11.8 mi. Webster Co., $1,454; 18 mi. Webster and Nuckolls Counties, $2,932; 10.5 mi. Nuckolls Co., $1,552; 12.4 mi. Franklin Co., $3,056—to J. E. Shearer & Son, Hebron, 17.4 mi. Nuckolls Co., $3,666; 8.4 mi. Thayer Co., $1,855—to Midstate Constr. Co., Hastings, 12.9 mi. Red Willow and Furnas Counties, $4,994—to P. Sawyer, Holdredge, 8.8 mi. Phelps and Harlan Counties, $2,480—to H. Hawke, Gibbon, 23.5 mi. Kearney Co., $4,480—to A. L. Lund, Kearney, 12.3 mi. Dawson and Buffalo Counties, $1,894—to Humpal & Coxbill, Atkinson, 9.8 mi. Rock and Holt Counties, $3,577—to Yant Constr. Co., 1146 Omaha Natl. Bank Bldg., Omaha; 9.8 mi. Fillmore and Saline Counties, $3,460—to Allen Davidson Co., Beatrice, 8.7 mi. Jefferson Co., $2,121. Grand total, $328,990. Noted Mar. 31.

Nevada—S. C. Durkee, state hy. engr., Carson City, grading, surfacing roadbed 3.51 mi. state hy., Lyon Co., to A. D. Drumm, Fallon, $27,309 est. $28,532; gravel surfacing roadbed 14.4 mi. state hy., White Pine Co., to Utah Constr. Co., Ogden, Utah. $98,325 est. $100,575.

New Jersey — Fredburn Constr. Co., contractors, 60 East 42nd St., New York, 6,000 tons reinforcing steel, for Newark-Jersey City Viaduct, Hudson and Essex Counties, to Kalman Steel Corp., Bethlehem Pa., for State Hy. Dpt., Trenton. Noted Apr. 7, under "Contracts Awarded."

New York—A. W. Brandt, comr. Hys., Albany, concrete paving 8.46 mi. Onondaga Co., to J. J. O'Rourke, Inc., 238 Gordon St., Stapleton, $215,041 est. $337,724. Noted Jan. 7.

New York—A. Brandt, comr. Hys., Albany, concrete paving 3.33 mi. Nassau Co., to Good Roads Eng. & Const. Co., Inc., Hempstead. $230,165 est. $331,921—2.28 mi. Dutchess Co., to M. A. Gammino Constr. Co., 250 Hartford Ave., Providence, R. I., $81,290 est. $118,303—grading 0.87 mi. Grand Central Parkway, Queens Co., to Erickson Equipment Co., Inc., Grand Central Terminal, New York, $174,427 est. $232,357—0.47 mi. Queens Co., to Garofano Constr. Co., 708 South Columbus Ave., Mount Vernon, $188,237 est. $281,026. Grand total $674,119. Noted Mar. 31.

Ohio—O. W. Merrell, dir. hys., Columbus, grading, draining, bitulithic concrete widening 1.506 mi. Pickaway Co., to Brewer & Brewer Constr. Co., Inc., Chillicothe, $20,896—3.713 mi. Summit Co., and concrete paving 3.919 mi. Portage and Summit Counties, to Hollinger-Davidson Co., 85 East Thornton St., Akron, $28,890 and $67,495 respectively—concrete paving 1.02 mi. Vinton Co., to I. J. Kuhner, Jackson, $32,878—grading, draining, macadam resurfacing 2.59 mi., Stark Co., to H. M. Wise, 1126 11th Ave. N. W., Canton, $26,102—grading, widening with brick, except brick 4.066 mi. Summit Co., to Loesch & Green Constr. Co., 4169 Pearl Rd., Cleveland, $169,950; furnishing, delivering brick for same to Metropolitan Paving Brick Co., Renkert Bldg., Canton, $74,446—brick paving, except brick, 0.98 mi. Wayne Co., to Urban Bros., 328 9th St., S. W., Massillon, $30,974; furnishing, delivering brick for same to Medal Brick & Tile Co., Wooster, $10,756. Grand total, $462,387. Noted Apr. 7.

Pa., Pittsburgh—Bd. P. Wks., City-County Bldg., E. G. Lang, dir., grading, curbing, guttering, paving Salisbury St., from Sterling to Eleanor Sts., to Booth & Flinn, 1942 Forbes St., $6,722, est. $9,200—Hawthorne St., from Stanton Ave. to Farmington St. and repaving railway area of 5th Ave., from Gist St. eastwardly, to D. Pavia, 331 Ladsdon St., $20,249 and $17,714 respectively, est. $28,000 and $25,000 respectively—Euclid Ave., from Pennsylvania Ave. to Baum Blvd., to M. O'Herron, South 21st and McKean Sts., $14,080 est. $20,000—catch basin construction in Beechwood Blvd., to J. and R. Very Co., 705 Hays St., $554 est. $1,000—chlorination equipment for Homewood and Phillips Park swimming pools, to J. A. Galbreath, $2,388 and $2,272 respectively. Grand total $63,979.

Tennessee—State Dpt. Hys. & P. Wks., Nashville, concrete surfacing 7.1 mi. Route 11, Davidson and Sumner Counties, to Municipal Paving & Constr. Co., Cotton States Bldg., $95,166; 5.89 mi. road in Knox, Blount and Sevier Counties, to Chandler Bros., Virginilina, Va., $106,076. Noted Mar. 31.

Washington—S. J. Humes, dir. State Hys., Olympia, improving Sects. 1, 2 and 3, State Roads 5 and 8, Yakima, Pierce and Klickitat Counties, to West Contg. Co., 210 Thompson St., Portland, Ore., $70,235; and same road, Sect. 4, to F. J. Kernan, 916 Porter Bldg., Portland, Ore., $49,135. Noted Mar. 31.

Wyoming—State Hy. Dpt., Cheyenne, reconstructing 13.112 mi. Crook Co., to Midland Constr. Co., Casper, $28,581 — 32.245 mi. F.A.P. 151-A, 151-B, 194-C and S.P. 993 combined, Weston Co., to Western Bridge Constr. Co., 3867 Leavenworth St., Omaha, Neb., $103,615—oil treating 21.757 mi. Nibrara Co., to W. A. Norris, Inc., Cheyenne, $21,843—34.873 mi. Laramie Co., to A. H. Reed Co., Cheyenne, $22,582—19.392 mi. Worland-Manderson Rd. and 2.168 mi. Worland-Tensleep Rd., Big Horn and Washakie Counties, to Taggart Constr. Co., Cody, $61,890—base course surfacing, bridging 9.746 mi. Fremont Co., to F. J. Anderson & Son, Casper, $11,122 — reconstructing, base course surfacing 19.83 mi. Platte Co., to Threet Bros., Lovell, $49,866. Grand total $299,499. Noted Apr. 14.

Ont., Barrie—Simcoe Co., improving roads, maintenance work, incl. grading draining, repairing, surfacing, etc., by day labor, $85,000. Contracts later for new construction $55,000; culverts and bridges, $8,000; machinery, $3,000. F. Campbell, Court House, engr.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

Mass., Quincy—Commonwealth of Massachusetts, Dpt. P. Wks., State House, Boston, A. W. Dean, engr., dredging in Wollaston Basin, Quincy Bay. $15,000.

BIDS ASKED

N. Y., Buffalo—May 5, by W. A. Rathman, city comr., City Hall, extending bulkhead adjacent to U. S. Harbor line in connection with creation water front park from present end at Maryland St. extended to point 1,091 ft. south.

Bond Elections

Coming Bond Elections

Water Dist. System—Hayward, Calif., Alameda County Water Works Dist., $56,000.

Water Tank & Tower—Park River, N. Dak., May 17, $8,000.

Roads — Multnomah County, Ore., May 20, $1,000,000.

Bonds Voted

Waterworks Improvements — Jasper, Ga., $24,000.

School—Malverne, N. Y., School Dist., F. G. Zitzman, Clk., Bd. Educ. $345,000.

Bonds Defeated

Sewers—El Centro, Calif., $185,000.

FEDERAL GOVERNMENT

PROPOSED WORK

Calif., Beverly Hills—POST OFFICE—Treas. Dpt. at office Sup. Archt., plans completed by Allison & Allison, Edison Bldg., Los Angeles, and R. C. Flewelling, 450 North Beverly Dr., Beverly Hills, steel, concrete, marble, Civic Center. $300,000. Noted Aug. 20.

Calif., San Francisco—CRANKSHAFT—U. S. Eng. Office, 1 spare crankshaft for dredge A MacKenzie.

Calif., San Francisco — OFFICERS' QUARTERS—Con. Q. M., Fort Mason, 24 sets 2 story officers' quarters $140,000, 2 story, rein.-con. library, $20,000, at Presidio.

Colo., Fort Lyon — HOSPITAL — Vet. Bu., Arlington Bldg., Wash., D. C., sketches U. S. Veterans' Hospital. $575,000 appropriated. Noted June 13, 1929.

Conn., Bridgeport — POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by J. M. Howells, 154 East 46th St., New York, and C. W. Walker, 1115 Main St., U. S. Post Office.

Ill., Chicago — FEDERAL EXPOSITION BUILDING—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans in progress federal exhibition building, Northerly Island. $500,000. J. A. Wetmore, Wash., D. C., acting sup. archt.

Ia., Sioux City—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., 4 story, basement, brick, stone, concrete post office and federal court building, 6th and Douglas Sts. $775,000. Proudfoot, Rawson, Souers & Thomas, 810 Hubbell Bldg., Des Moines, and Beuttler & Arnold, 409 Insurance Exch., archts. Noted Dec. 3.

La., Shreveport—QUARTERS — Con. Q.M., Barksdale Field, soon takes bids concrete, brick, tile, Barksdale Field. $75,000.

Me., Criehaven—BREAKWATER—U. S. Eng., 300 ft. breakwater in Criehaven Harbor. $40,000.

Mass., Camp Devens—CHAPEL and HOME—Con. Q.M. making plans chapel and nurses home, Fort Devens.

Mo., Jefferson Barracks — THEATRE—Con. Q.M. sketches 1 and 2 story, 50 x 120 ft. theatre. $36,000.

N. C., Charlotte—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $525,000.

Pa., Phila.—REMODELING—Spec. 6733—Yards & Docks, Navy Dpt., Wash., D. C., remodeling quarters at Navy Yard, Marine Barracks, etc.

S. C., Cheraw—POST OFFICE—Treas. Dpt. at office Sup. Archt., bids about June, U. S. Post Office, old Hotel Cheraw site.

BIDS ASKED

Ala., Montgomery—CEILINGS—May 12, by Con. Q. M., Maxwell Field, installing, completing gypsum ceilings for 1 A.C. warehouse, 1 machine shop, 1 assembly shop and 4 hangar buildings, at Maxwell Field; adv. E. N.-R. Apr. 28.

Calif., Fort Bragg—MASS CONCRETE—May 4, by U. S. Eng., Custom House, San Francisco, 1,000 cu.yd. mass concrete for jetty at Noyo River, 1.5 mi. north of here. Mendocino Co.

Calif., Merced—POST OFFICE—May 31, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $180,000. Noted Mar. 10.

Calif., Petaluma—POST OFFICE—May 9, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $165,000.

Conn., New London—PIERS—May 1, by U. S. Coast Guard, Wash., D. C., 2 finger piers at main wharf. Noted Apr. 21.

Delaware and Maryland—DREDGING, etc.—May 27 by U. S. Eng., Wilmington, Del., dredging 107,000 cu.yd. and constructing 22 mooring dolphins and 1,008 lin.ft. boardwalk along Inland Waterway, from Delaware River to Chesapeake Bay, Del. and Md. (Chesapeake and Delaware Canal); adv. E. N.-R. Apr. 28.

D. C., Wash.—CIRCUIT BREAKERS—May 3, by Bureau Supplies & Accounts, Navy Dpt., Wash., D. C., circuit breakers, delivery at Phila-Pa., and Mare Island, Calif.

D. C., Wash.—OFFICE—May 31, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Department Justice building (except elevators). $9,000,000. Noted Oct. 15, under "Contracts Awarded."

Fla., Daytona Beach—POST OFFICE—May 17, by Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing U. S. Post Office. $285,000.

Illinois and Wisconsin—AIRWAY BEACONS—May 12, by Div. Purchases & Sales, Dpt. Commerce, Wash., D. C., electric airway beacons on Chicago-LaCrosse Sect. of Chicago-Twin Cities Airway.

Ill., Chicago—HOSPITAL—May 27, by Treas. Dpt. at office Sup. Archt., Wash., D. C., new building and extending, remodeling buildings, etc. (except elevators) at U. S. Marine Hospital; adv. E. N.-R. Apr. 28. Noted Mar. 31.

Ia., Des Moines—HOSPITAL—May 31, by Vet. Bu., Arlington Bldg., Wash., D. C., building and utilities, at Veterans Administration Hospital· adv. E. N.-R. Apr. 28. Noted Dec. 3.

Ia., Spencer—POST OFFICE—May 12, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted Mar. 24.

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Kan., Holton—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about June 1, rein.-con., brick, stone, post office. $85,000. Noted Dec. 17.

La., Shreveport—SCREENING—May 5, by Con. Q. M., screening all buildings at Barksdale Field. $40,000; adv. E. N.-R. Apr. 28.

La., Shreveport—STREET LIGHTING SYSTEM—May 10, by Con. Q. M., Barksdale Field, constructing series street lighting system at Barksdale Field; adv. E. N.-R. Apr. 28.

Mich., Alpena—DREDGING—May 25, by U. S. Eng., Detroit, 52,800 cu.yd. from Alpena Harbor; adv. E. N.-R. Apr. 28.

Mich., Alma—POST OFFICE—May 18, by Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing U. S. Post Office. $115,000; adv. E. N.-R. Apr. 28. Noted Dec. 3.

Minn., Austin—EXTENDING—May 10, by Treas. Dpt. at office Sup. Archt., Wash., D. C., extending and remodeling U. S. Post Office. $75,000.

N. M., Santa Fe—DORMITORY—May 11, by Purchasing Div., Interior Dpt., Wash., D. C., constructing dormitory building.

New Jersey—DIKE—May 18, by U. S. Eng., 39 Whitehall St., New York, removing approximately 475 lin.ft. stone filled timber pile dike in Manasquan River; adv. E. N.-R. Apr. 28.

N. J., Newark—POST OFFICE—May 4, by Treas. Dpt. at office Sup. Archt., Wash., D. C., supplemental bids from original bidders U. S. Post Office. Noted Apr. 14.

N. Y., Jones Beach—COAST GUARD BUILDING—May 19, by U. S. Coast Guard Headquarters, Wash., D. C., 2 story, 75x125 ft., brick building with wood pile subfoundation and concrete footings and foundation walls, electric lighting, water supply, heating, plumbing and sanitary system, at U. S. Coast Guard Station.

N. Y., New York—POST OFFICE—May 2 (extended date), by Treas. Dpt., at office Sup. Archt., Wash., D. C., substructure Post Office, 33rd St. between 9th and 10th Aves. McKim, Mead & White, 101 Park Ave., archts.

N. C., Durham—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about May 19, U. S. Post Office. $550,000. Noted Aug. 13.

O., Cincinnati—GASOLINE FUELING SYSTEM—May 11, by Con. Q.M., Patterson Field, Fairfield, constructing, completing gasoline fueling system at Lunken Field; adv. E. N.-R. Apr. 28.

O., Dayton—WATER SOFTENING PLANT—May 3, by Vet. Bu., Arlington Bldg., Wash., D. C., lime soda water softening system at U. S. Veterans' Administration Home. Noted Apr. 7.

Okla., Talequah—HOME ECOMONICS—May 24, by Dpt. Interior, Purchasing Office, Wash., D. C., home economics building at Sequoyah Indian Training School.

Ore., Bandon—BOATHOUSE—May 19, by U. S. Coast Guard Headquarters, Wash., D. C., removing present boathouse, constructing 42x54 ft. frame boathouse, 180 ft. 3 track creosoted wood pile and timber marine launchway, 12x40 ft. wood pile and timber wharf, with 3 ft. wide walkway, 118 ft. long, and 150 ft. concrete retaining wall, 12 ft. high grading, filling, excavating at Coquille River Coast Guard Station.

Pa., Coatesville—ELEVATOR—May 10, by Vet. Bu., Arlington Bldg., Wash., D. C., electric elevator for Building 9, Veteran's Administration Hospital.

Pa., Nanticoke—POST OFFICE—May 24, by Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling U. S. Post Office.

Pa., Phila.—REMODELING—Spec. 6733—May 11, by Yards & Docks, Navy Dpt., Wash., D. C., remodeling officers quarters at Marine Barracks.

R. I., Block Island—DREDGING—May 18, by U. S. Eng., Providence, 15,200 cu.yd. in Harbor of Refuge; adv. E. N.-R. Apr. 28.

R. I., Providence—DREDGING—May 13, by U. S. Eng., 24,900 cu.yd. material and removing 18,436 cu.yd. ledge rock.

Tenn., Memphis—PUMPS—May 6, by U. S. Eng., P. O. Box 97, three 15 in. sand and gravel pumps. Noted Apr. 21.

Texas and Oklahoma—AIRWAY BEACONS—May 9, by Div. Purchases and Sales, Dpt. Commerce, Wash., D. C., electric airway beacons on Amarillo-Tulsa Sect. of Amarillo-St. Louis Airway.

Tex., Randolph Field—COOLING SYSTEM—May 9, by Con. Q.M., Randolph Field, insulation and cooling system in administration building. Former bids rejected. Noted Mar. 3.

Va., Petersburg—EARTHWORK—May 6, by Petersburg Natl. Military Park Comn. War Dpt., 2 mi. earthwork and 7 mi. earth road in Petersburg National Military Park.

Vt., Brattleboro—WATER PIPE, etc.—May 5, by Treas. Dpt. at office Sup. Archt., Wash., D. C., water pipe, water heater, tank, appurtenances. J. A. Wetmore, acting sup. archt.

Wash., Tacoma—STOKER EQUIPMENT—May 10, by Vet. Bu., Arlington Bldg., Wash., D. C., stoker equipment under three 250 hp. water tube Berchfield boilers, at U. S. Veterans' Hospital. $4,500.

Alaska, Fairbanks—ELEVATOR—May 11, by Treas. Dpt., at office Sup. Archt., Wash., D. C., passenger elevator at U. S. Post Office, Court House, Jail.

Canal Zone — JACKING AND ROLLING SYSTEM—May 11, by A. L. Flint, gen. purch. officer Panama Canal, Wash., D. C., material a equipment for jacking and rolling system f repairing miter gate bearings of canal locks, al pump unit, flexible copper pipe and forged ste pipe fittings, Schedule 2746.

T. H., Pearl Harbor—RUNWAY—Spec. 67—May 18, by Yards & Docks, Navy Dpt., Wash D. C., seaplane runway and paving, Na Yard.

BIDS RECEIVED

Pa., Pittsburgh—LOCKS—U. S. Eng., Pitt-burgh, Pa., Apr. 22, constructing Montgome Locks, Ohio River, 30 mi. below here, fro Booth & Flinn, 1942 Forbes St., entire wo $1,621,593, alternate bid A exclusive of lock $1,553,793, emergency dam and lock gates, fro Independent Bridge Co., Neville Island (P. O Pittsburgh) $59,740. Noted Mar. 17.

CONTRACTS AWARDED

Ark., Garland—EARTHWORK—U. S. Eng Box 667, Vicksburg, Miss., 39,900 cu.yd. Cran Terry Place, 67,000 cu.yd. in Magee Place, a 39,100 cu.yd. Mills Place, to Wills Constr. Co 6029 Clemmons Ave., St. Louis, Mo., at 9.75 per cu.yd.

Conn., Hartford—DREDGING—U. S. Eng Providence, R. I., 50,000 cu.yd. Connecticu River, to Trimount Dredging Co., 10 State St Boston, Mass., $12,345. Noted Apr. 7.

D. C., Wash.—ELECTRICAL EQUIPMENT—D. Lynn, archt. Capitol, furnishing, installin electrical equipment, in new House of Represent atives Office Building, to Westinghouse Electri & Mfg. Co., Washington Bldg., $162,395. Note Feb. 18.

D. C., Wash.—LIBRARY—Jacobson Bros., contractors, 19 South LaSalle St., Chicago, Ill 500 tons structural steel for library of Congress addition, to Shippers Car Line Co., Milton, Pa., for Government, at office D. Lynn, archt. Capito. Noted Mar. 31 under "Contracts Awarded."

D. C., Wash.—REMODELING—Treas. Dpt. at office Sup. Archt., general contract remodelin and constructing U. S. Post Office addition, to B-W Constr. Co., 720 Wabash St., Chicago, Ill. Est. $3,000,000. Noted Apr. 14.

Idaho, Pocatello — POST OFFICE — Tapager Constr. Co., contractors, Albert Lea, Minn., structural steel for U. S. Post Office, to Pittsburgh-Des Moines Steel Co., Neville Island, Pittsburgh, Pa., for Treas. Dpt. at office Sup. Archt., Wash., D. C.; steel bars, reinforcing, etc., to Steel Engineers Co., 1526 S.W.T. Bldg., Salt Lake City, Utah. Noted Mar. 17, under "Contracts Awarded."

Ill., Rockford—ELEVATORS—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevators in U. S. Post Office, to Otis Elevator Co., 810 18th St. N. W., Wash., D. C., $21,966. Noted Mar. 17.

La., Baton Rouge—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office and Court House, to A. Blair, Montgomery, Ala., $308,760. Noted Mar. 17.

Me., Togas—HOSPITAL—Vet. Bu., Arlington Bldg., Wash., D. C., 7 story, basement, 45 x 350 ft., brick, steel, to C. B. Smith & Co., Hartford, Conn., $374,000. Noted Mar. 17.

Mass., Northampton—FIRE ALARM SYSTEM—Vet. Bu., Arlington Bldg., Wash., D. C., fire alarm system in U. S. Veterans' Administration Hospital, to Springfield Electric Co., 51½ Taylor St., Springfield, $3,187.

Md., Westminister—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing U. S. Post Office, incl. approaches, to Brooklyn and Queens Screen Mfg. Co., Mitchel Field, Hempstead, N. Y., $73,375 (360 days). Former contract revoked. Noted Mar. 17.

Minn., New Ulm—REMODELING, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office, to Puhlman Bros., New Ulm, $2,675. Noted Mar. 17.

Mississippi — EARTHWORK — U. S. Eng., P. O. Box 667, Vicksburg, 32,980 cu.yd. earthwork in Panola-Quitman Drainage Dist., Floodway, to M. Harvey, Sardis, at 25.4c. per cu.yd.

Mo., Kansas City—WIRE—U. S. Eng., 707 Postal Telegraph Bldg., 210,000 ft. ⅜ in. steel strand wire, f.o.b. Leavenworth, Kan., to Amer. Steel & Wire Co., 417 Grand Ave., at $11.58 per 1000 ft.; 2 steam driven locomotive air compressors, f.o.b. Gasconade to New York Air Brake Co., 420 Lexington Ave., New York; 1 gasoline driven barge pump, f.o.b. Napoleon, to Star Boat & Motor Co., 308 Commerce Bldg., $110.

Neb., Lincoln—FENCE and GATES—Vet. Bu., Arlington Bldg., Wash., D. C., fence and gates at U. S. Veterans Hospital, to Ceco Steel & Wire Products Co., 1141 North 11th St., Omaha, $11,575.

Nev., Boulder City—COOLING SYSTEM—Bureau Reclamation, Denver, Colo., installing cooling system in government administraton building, to Frigidaire Sales Corp., 3rd Natl. Bldg., Dayton, O., $7,600.

Nev., Boulder City — COTTAGES — Bureau Reclamation, Denver, Colo., thirty 3 room cottages, to DeCamp & Hudson Co. Ltd., Los Angeles, Calif., $9,053. Govt. furnishes material. Noted Mar. 17.

N. Y., Brooklyn—CRANE RUNWAYS—Spec. 6763—Yards & Docks, Navy Dpt., Wash., D. C., extending crane runways building 28, to Hart Early Co., 18 East 14th St., New York, $11,480.

N. Y., Port Chester—DREDGING—U. S. Eng., Army Bldg., New York, 138,930 cu.yd. place measurement other than ledge rock in Port

Federal Government (Continued)

Chester Harbor, to Atlantic, Gulf & Pacific Co., 13 Park Row, New York, $19,075. Noted Mar. 17.

N. C., High Point—ELEVATORS—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevators in U. S. Post Office, to Otis Elevator Co., 810 18th St. N. W., Wash., D. C., $2,693.

S. C., Columbia — ELEVATOR — Vet. Bu., Arlington Bldg., Wash., D. C., elevator in U. S. Veterans' Hospital, to Otis Elevator Co., 810 18th St., Wash., N. C., $21,032. This award supersedes former award. Noted Feb. 18.

S. C., Parris Island—ROADS—Spec. 6799—Yards & Docks, Navy Dpt., Wash., D. C., widening concrete roads, to L. S. Mitchell, Walterboro, $4,164. Noted Apr. 7.

Va., Langley Field — TRANSFORMER VAULTS, etc.—Con. Q. M., transformer vaults, transformer house and underground electric distribution system, to L. E. Myers Constr. Co., 84 William St., New York, $95,133; seawall extension, to Alsop & Pierce, Newport News, Va., $4,300.

Va., Norfolk—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., foundations for U. S. Post Office, to Virginia Eng. Co., Newport News, $210,500. Noted Mar. 24.

Va., Quantico—DREDGING—Spec. 6792—Yards & Docks, Navy Dpt., Wash., D. C., filling at Marine Barracks, Item 2a to Trimount Dredging Co., 10 State St., Boston, Mass., $38,000; Item 7a, to P. T. McDermott Co., 1014 Wisconsin Ave. N. W., Wash., D. C., $35,840. Noted Mar. 17.

Wis., Appleton — FREIGHT ELEVATOR — Treas. Dpt. at office Sup. Archt., Wash., D. C., freight elevator, to Otis Elevator Co., 810 18th St., Wash., D. C., $2,000. Noted Mar. 3.

Wis., Little Chute—DAM—U. S. Eng., Milwaukee, concrete dam, to C. R. Meyer, Oshkosh, $55,043. Noted Mar. 10.

RAILWAYS

PROPOSED WORK

Texas—Texas & Pacific Ry. Co., E. F. Mitchell, Dallas, ch. engr., permit for construction 332 mi. railroad between Big Springs and Vega, Dimmitt and Amarillo and Big Springs and Lubbock, rejected, $8,000,000. Plans ordered stopped. Noted Nov. 20, 1930.

CONTRACTS AWARDED

Michigan—Gladwin Park Realty Co., 2512 Buhl Bldg., Detroit, marine railway, structural steel and timber on pile and concrete found., in Detroit, steel construction, to Whitehead & Kales, 58 Haltner Ave., River Rouge; pile driving and foundation, to A. J. Dupuis Co., 1811 Ford Bldg., Detroit. Est. $25,000.

SUBWAYS AND TUNNELS

PROPOSED WORK

Pa., Pittsburgh—City Council, E. G. Lang, dir. P. Wks. Dpt., City-County Bldg., preliminary studies subway, incl. 8,000 ft. underground tube, excav., shoring, concrete, reinforcing and structural steel, waterproof protection, drainage, lighting, ventilation, stairway, tunnels, plank deck on streets, extra bracing in difficult places, dumping, underpinning in 7th Ave. and elsewhere, white tile sections, repaving streets, sewers, water lines. $5,510,500, incl. 5 and 10% for engineering and contingencies. C. M. Reppert, city engr. W. Haydock, 2524 Beechwood Blvd., transit engr. Noted Apr. 14.

Pa., Pittsburgh—See "Piers and Wharves."

CONTRACTS AWARDED

N. Y., New York—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., installing tracks and contact rail for part Rapid Transit Railway, Route 101, parts of Sects. 4 and 5, and Route 103 Sects. 1, 2 and 3, to B. T. and J. J. Mack, 160 Bway., $204,781. Noted Mar. 31.

GRADE CROSSINGS

CONTRACTS AWARDED

Calif., Niles—Alameda Co., Oakland, rein.-con. underpass, to C. A. Bruce & Sons, Pleasanton, $19,689. Noted Mar. 10.

DAMS

CONTRACTS AWARDED

Calif., San Diego—City, constructing El Capitan Reservoir Dam, Spillway and Outlet Work, to H. W. Rohl Co., 4351 Alhambra Ave., Los Angeles, and T. E. Connolly, 461 Market St., San Francisco, $2,332,800. Noted Apr. 21.

PIERS AND WHARVES

PROPOSED WORK

Mass, Edgartown — WHARF — Town plans town wharf. $25,000—$30,000.

Pa., Pittsburgh — WHARF WALLS — City Council preliminary studies, Allegheny River Wharf Walls from Stanix to 9th Sts., incl. concrete wharf walls, arched river wall with concrete platform supported on wall and on cloumns, wharfing space and navigation interests under wharf, parking or boulevard on top platform, $600,000. W. Haydock, 2524 Beechwood Blvd., transit comr. E. G. Lang, City-County Bldg., city engr. Noted Apr. 14, under "Subways and Tunnels."

CONTRACTS AWARDED

N. J., Passaic—DOCK—Bd. City Comrs., City Hall, municipal dock, timber, sheet piling, to Linde-Griffith Constr. Co., 152 Passaic St., Newark, est. $32,000. Noted Apr. 30.

AIRPORTS

BIDS ASKED

O., Cincinnati—May 3, by City Manager, concrete runways in municipal airport, incl. 86,000 sq.yd. 7 in. concrete paving, 35,000 cu.yd. grading, 7,500 lin.ft. 12- to 27-in. pipe drain. $150,000. A. J. McDonough, City Hall, engr. Noted Apr. 21.

GRAIN ELEVATORS

CONTRACTS AWARDED

Mo., Kansas City—WORK HOUSE—Missouri Pacific R.R. Co., A. E. Hadley, ch. engr., Missouri Pacific Bldg., 8 story, 81 x 114 ft. rein.-con. work house addition for grain elevator, Nicholson and Topping Sts., to E. Ahlskog Co., 407 South Dearborn St., Chicago, and Dwight Bldg., Kansas City. Est. $1,000,000. Contractor awarded excavating to Winston Bros., 407 Buder Bldg., St. Louis; foundation piling, to A. Whitney & Sons, Inc., 1801 Grand Ave. Hall-Baker Grain Co., Bd. Trade Bldg., lessee. Noted Apr. 7.

POWER AND LIGHTING

PROPOSED WORK

Mo., Excelsior Springs—Missouri Power & Light Co., D. W. Snyder, Jr., 740 Board of Trade Bldg., Kansas City, granted franchise by city 15 mi. trunk line from gas field of Liberty to here, incl. compressor stations, meters and gas distribution system. $100,000.

New York—New York Power & Light Corp., 126 State St., Albany, bids in May, new 8.5 mi. 8 in. gas main from Hudson Valley Fuel Corp. plant, Troy to city of Rensselaer.

New York—Syracuse Lighting Co., 421 South Warren St., natural gas pipe line from Baldwinsville to Fulton. $75,000. **Maturity after May 1.**

Okla., Talihina—City, J. D. Bailey, mayor, granted franchise to H. A. Shallenberger, Talihina, for natural gas system. $25,000. Private plans.

BIDS ASKED

Conn., Hartford—See "Contracts Awarded."

Kentucky—See "Contracts Awarded."

CONTRACTS AWARDED

California—Pacific States Gas & Electric Co. 245 Market St., San Francisco, plans to start work within 3 months 40 mi. welded steel natural gas pipe line extending through San Mateo County along Skyline Blvd., to connect Milpitas with the coast and San Joaquin Valley Lines and Kettleman Hills Dist., work will be done by day labor. Pipe purchased in open market. Est. $2,000,000. Noted Mar. 10.

Calif., Los Angeles—See "Streets and Roads."

Conn., Hartford — Hartford Electric Light Co., 266 Pearl St., extensive conduit construction. $300,000. Owner builds. Private plans.

Kentucky—Union Light, Heat & Power Co. Covington, 4 mi. 13,200 volt transmission line from Ft. Mitchell to Latonia, own forces. $35,000. Private plans.

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Power and Lighting (Continued)

Mo., St. Louis—Bd. P. Serv., City Hall, maintaining gas transmission equipment and furnishing gas so transmitted for lighting various highways in city for period of one year, to Laclede Gas Light Co., 11th and Olive Sts. $59,200. Est. $67,200. Noted Mar. 3.

PARKS AND SPORTS

PROPOSED WORK

Ill., Chicago—H. J. Heinz Co., Progress St., Pittsburgh, Pa., sketches by R. M. Trimble, Commonwealth Annex, Pittsburgh, Pa., 40 x 80 ft. display pavilion for World's Fair.

N. J., Bradley Beach—Bradley Beach Casino, Newark and Park Place Aves., rebuilding casino and park concession structures, dance hall, etc., Newark and Park Place Aves., destroyed by fire. $75,000. **Maturity indefinite.**

N. J., Elizabeth—Owner, c/o Oakley & Son, archts., 1259 Clinton Pl., preliminary plans 1 story sports arena. $300,000.

Pa., Slippery Rock — Slippery Rock State Teachers College, 2 hockey fields, gridiron, baseball field, soccer field, bleachers to seat 3,000, grading, improving, removing 40,000 cu.yd. dirt. Private plans. **Maturity |- late spring.**

CONTRACTS AWARDED

Calif., San Jose—San Jose Recreational Park, Inc., baseball park, athletic field, plunge, 18th and Williams Sts., to J. Dawson, 2907 Pine St., Berkeley, $150,000.

Mo., Joplin—Park Bd., F. M. Weeks, secy., 57 x 195 ft., rein.-con. swimming pool in Schifferdecker Park, to C. A. Dieter Constr. Co., 223 West 3rd St., $6,950. Noted Mar. 17.

N. C., Charlotte—City, Park and Recreation Comn., developing tennis courts, baseball and football fields on 20 acre tract (owned by City Water Dpt., being turned over to Park & Recreation Comn.), at edge of Rosemont development near creek on Monroe Rd. J. B. Pridgen, city mgr.

HEATING AND VENTILATING

CONTRACTS AWARDED

Minn., Minneapolis—Bd. Educ., 305 City Hall, heating Sheridan Elementary-Junior High School, to F. Lamson, $22,000; temperature control, to Minneapolis Honeywell Heating Regulator Co., 2753 4th Ave., $12,409; electrical work, to Maier Electric Co., 213 East Henn St., $23,515; plumbing, to Harris Bros. Plumbing & Heating Co., 217 West Lake St., $29,400; •275,000 brick to Twin City Brick Co., 529 2nd Ave. S., at $22.75 per 1000; 40,000 brick to Wunder-Klein-Donahue Co., 610 Baker Bldg., at $22.75 per 1000. Noted Mar. 17 under "Schools."

N. J., Princeton—Princeton University, E. A. McMillan, supt., heating and plumbing Joliet Hall (dormitory), to J. Black & Son, 216 Alexander St., Princeton; electrical work, to J. P. Servis, 30 Harrison St. Noted Apr. 21 under "Contracts Awarded, Commercial Buildings."

New York—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, furnishing, installing ventilating equipment, Line D, from 8th to Roosevelt Aves., and Line E, from Nassau Ave. to Queens Plaza, forming part Independent System City-owned Rapid Transit Railroads to Fishback & Moore, 226 East 41st St., New York, $162,400. Noted Mar. 24.

N. Y., Brooklyn—Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, heating, ventilating apparatus, kitchen wing reception building, Brooklyn State Hospital, to A. D. Granger Co., Inc., 15 Park Row, New York, $64,888. Noted Mar. 10.

N. Y., Ithaca—Dpt. Educ., State Office Bldg., Albany, heating for home economics building, Cornell University, to Barr & Creelman, 74 Exchange St., Rochester, $23,556; electrical work for service connections, to F. A. Mott Electric Co., 196 Chestnut St., Rochester, $4,890.

UNCLASSIFIED

PROPOSED WORK

Va., Blacksburg—HEALTH RESORT—Yellow Sulphur Springs Recreative Sanatorium, Inc., A. T. M. Rust, pres., Christiansburg, rebuilding, improving health resort, incl. 5 new units, 10 cottages with baths and sleeping porches, large swimming pool. Charter issued for $350,000. **Maturity indefinite.**

BIDS ASKED

California—GAS PIPE LINE—Southern Counties Gas Co., 810 South Flower St., Los Angeles, bids about May 1, 50 mi. 12¾ in. O.D. steel gas pipe line from Huntington Beach to San Diego. Contract for 7,500 tons steel pipe, awarded to Republic Steel Corp., 112 West 9th St., Los Angeles, $400,000.

Ia., Ft. Madison—CULVERT EXTENSIONS—May 3, at office Auditor Lee Co., 10 culvert extensions, incl. 317 cu.yd. concrete.

Ia., Red Oak—CULVERTS—May 4, at office Auditor Montgomery Co., 20 box culverts, incl. 780 cu.yd. rein.-con.

N. Y., Bedford Hills — REFRIGERATION WORK, etc.—May 17, by Commissioner Dpt. Correctino, State Office Bldg., Albany, refrigeration work, storehouse, and refrigeration work, dining and kitchen buildings, State Prison for Women, Westfield State Farm; adv. E. N.-R. Apr. 28.

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CONTRACTS AWARDED

California — GAS PIPE LINE — See "Bids Asked."

Mass., Taunton—St. Mary's Roman Catholic Church, J. E. Cassidy, pastor, electrical work in Monseigneur Coyle High School, to Brady Electric Co., 236 Bedford St., Fall River. Est., $25,000. Noted Mar. 17, under "Schools."

Pa., Norristown—STATION, PLATFORM, etc. —Reading R.R. Co., Reading Terminal Bldg., Phila., C. Dillenbeck, ch. engr., station, platform, etc., to W. Steele, 15th and Cherry Sts., Phila.; contractor awarded 125 tons structural steel, to Modern Iron Wks., c/o contractor.

MATERIALS

PROPOSED WORK

ASPHALT EMULSION—**Chicago, Ill.**—Comrs. Cook Co., County Bldg., soon take bids 200,000 gal. more or less asphalt emulsion required during 1933 for repairs, maintenance work on streets and roads. G. A. Quinlan, 221 North La Salle St., co. supt. hys.

BIDS ASKED

PIPE—**California**—See "Power and Lighting," under "Contracts Awarded."

OILS, GRAVEL, etc.—**Benton, Ill.**—Apr. 30, by Bd. Supervs. Franklin Co. 3,700 gal. E-2 and 5,600 gal. E-4 road oil in place, 1,000 tons washed gravel or 920 tons crushed rock, 1,150 tons Novaculite gravel. G. H. Baker, c/o State Dpt. P. Wks. and Buildings, Div. Hys., Springfield engr. co. roads.

MANHOLE and CATCH BASIN FRAMES, etc.—**Boston, Mass.**—May 2, by City, Supply Dpt., P. A. Chapman, supt., manhole and catch basin frames, grates, tide gates, iron castings, etc., as specified. $5,000 or more.

LUMBER—**New York, N. Y.**—**May 4,** by M. F. Kenny, comr. Purchase, Municipal Bldg., lumber to Fire Dpt. and Parks—Manhattan.

STEAM CINDERS—**New York, N. Y.**—May 4, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., 20,000 cu.yd. steam cinders.

ALUMINUM POWDER, etc.—**Raleigh, N. C.** —May 5, by Div. Purch. & Contr. A. S. Brower, dir., furnishing 10,000 gal. aluminum powder in 2 lb. packages; 5,000 gal. aluminum vehicle in 1 gal. cans; 200 lb. powdered lamp black in 1 lb. packages; 10,000 sheets galvannealed steel sheets 24 x 24 in. x 18 gage, must be mill sheared, commercially flat, full 18 gage.

STORM SEWER MATERIALS — **Oklahoma City, Okla.**—May 3, by M. Peshek, Jr., city clk., 2,800 lin.ft. 27 in. tile, 900 lin.ft. 18 in. concrete pipe, 29,000 ft. b.m. timber, 2,800 cu.yd. mass concrete for Santa Fe storm and sanitary sewers. $36,000. T. P. Banks, City Hall, engr.

STEEL—**Easton, Pa.**—See "Waterworks."

BITUMINOUS MATERIALS—**Kingston, Pa.**—See "Streets and Roads."

STEEL—**Pottstown, Pa.**—See "Schools" under "Commercial Buildings." Contracts Awarded.

ASPHALT—**Madison, Wis.**—May 3, by State Hy. Comn., Capitol Annex, Madison, 306,000 gal. asphalt type C 50-60; 150,000 gal. asphalt type E, Grade 2; 64,000 gal. asphalt type E, Grade 3; 220,000 gal. tar type B; 164,000 gal. asphalt type E, Grade 2; 120,000 gal. asphalt type E, Grade 2.

STEEL SHAFT CAPS, VALVES, etc.—**Vancouver, B. C.**—Greater Vancouver Water Dists., Bekins Bldg., taking bids furnishing steel shaft caps, carbon or chrome-nickel steel, flanges, bolts, nuts, etc., 65 tons material shop lists at 660 lb. per sq.in. for 1st Narrows Tunnel outlets, two 48 in. and one 36 in. gate valves; 75 tons 16 cast steel pipes and bends shop lists at 660 lb. per sq.in. $25,000. E. A. Cleveland, Bekins Bldg., engr.

CONTRACTS AWARDED

STEEL PIPE—**California**—See "Unclassified," under "Bids Asked."

ROAD OIL—**Hartford, Conn.**—Bd. Contr. & Supply, J. S. Bush, secy., 300,000 gal. more or less 45% to 55% asphaltic base road oil, to Texas Co., 429 Park Sq. Bldg., Boston, Mass., at 4.3c. per gal., total $12,900. Noted Apr. 7.

WIRE LEAD CABLE—**Hartford, Conn.**—Bd. Contr. & Supply, J. R. Bush, secy., 5,000 ft. more or less 7 conductor, 5,000 ft. more or less 10 conductor and 1,000 ft. more or less 20 conductor wire lead cable, to Bishop Wire & Cable Corp., 420 East 25th St., New York. Noted Mar. 31.

GRAVEL and SAND—**Chicago, Ill.**—City Council, City Hall, furnishing, delivering 6,000 cu.yd. each gravel and Torpedo sand, to Material Serv. Corp., 33 North La Salle St., at $1.95 per cu.yd., total $23,400.

PIPE FITTINGS, etc.—**Chicago, Ill.**—Dpt. P. Wks., City Hall, A. A. Sprague, comr., c.i. pipe fittings, pipe supports, bolts required at Mayfair Water Pumping Station, to Lynchburg Fdry. Co., 122 South Michigan Blvd., $6,810.

PLANK and CULVERT PIPE—**Algona, Ia.**—Bd. Supervs., Kossuth Co., 600,000 ft. b.m. fir bridge plank, to Wheeler Lumber, Bridge & Supply Co., Hubbell Bldg., Des Moines, at $28.50 per 1,000 ft.; 2 carloads 15 in. corrugated culvert pipe, to Klaurer Mfg. Co., Dubuque, at 48c. per ft. Noted Mar. 17.

LUMBER, etc.—**Hampton, Ia.**—Franklin Co., 91,340 ft. b.m. Class D bridge lumber, 2,780 ft. red cedar piling, 1,050 ft. red cedar posts, to Wheeler Lumber, Bridge & Supply Co., 606 Hubbell Bldg., Des Moines, $4,290. Noted Mar. 24.

LUMBER, etc.—**Newton, Ia.**—J. W. Da aud. Jasper Co., 3,480 ft. creosoted piling, 5 580 ft. creosoted lumber, 400 creosoted posts, to Wheeler Lumber, Bridge & Supply C Hubbell Bldg., Des Moines, $5,257; 10 I-b spans, to Pittsburgh-Des Moines Steel Co., 1 and Southwest Tuttle Sts., Des Moines, $4,1 corrugated pipe, to Wheeling Corrugated C 100 Southwest 2nd St., Des Moines, $5,6 Grand total $15,108.

TAR—**Augusta, Me.**—State, Hy. Comn., Augusta, 5,250,000 gal. refined tar for surf treatment, to Barrett Co., Beacham St., Ever Mass., 8.45c. per gal.

GRANITE EDGESTONES—**Boston, Mass.**—City, Supply Dpt., P. A. Chapman, supt., gr ite edgestones as specified, to H. E. Fletcher C Shelmsford, $66,860. Noted Mar. 31.

WATER PIPE—**Canton, Mass.**—Town, B Selectmen, 100 tons or more 6 in. c.i. wa pipe, to Warren Fdry. & Pipe Co., Phillipsb Pa. Noted Mar. 17, under "Waterworks."

WATER PIPE—**Medford, Mass.**—City, 12 tons 6 and 8 in. c.i. water pipe, to Warr Fdry. & Pipe Co., Phillipsburg, Pa. Noted M 3, under "Waterworks."

WATER PIPE — **Northampton, Mass.** — Municipality, 100 tons 8 and 10 in. c.i. wat pipe, to U. S. Pipe & Fdry. Co., Burlington, N. J.

PENETRATION ASPHALT — **Springfield, Mass.** — Dpt. Streets & Eng., R. P. Marsh supt., penetration asphalt, to Texas Co., 31 St James Ave., Boston; asphaltic cement and 85 road oil, to Alden Speares Sons Co., 156 6th St., Cambridge; tar, to American Tar Co., 111 Howard Ave.; fuel oil, to Colonial-Beacon Oil Co., 30 Beacham St., Everett; cement, to Cook Builders Supply Co., 41 Cypress St.; sewer pipe to T. Shea, Inc., 347 Bay St.; curbing, to H. E Fletcher Co., Chelmsford; castings, to Fleming Fdry. Co., 164 Bernie Ave.; ¾ in. to 2½ in. trap rock, to L. Suzio Trap Rock Co., 98 State St Meriden, Conn.

PIPE—**St. Louis, Mo.**—Water Dpt., City Hall, 5,000 ft. 8 in. c.i. water pipe, to McWane Cast Iron Pipe Co., 208 South LaSalle St., Chicago Ill., at 72.9c. per ft.; 10,000 ft. 8 in. and 500 ft 10 in. c.i. pipe, to Amer. Cast Iron Pipe Co 912 Scarrett Bldg., Kansas City, at 73.5c. and 99.5c. per ft. respectively; 5,000 ft. 12 in. c.i. pipe, to National Cast Iron Pipe Co., Tarrant City, Birmingham, Ala., $1.27 per ft.

TARVIA, etc. — **Newton, N. J.** — Bd. Freeholders Sussex Co., Court House, 234,000 gal. tarvia B and 83,000 gal. No. 2, to Dosch King Co., Whippany, at 14.7c. and 15.14c. per gal. respectively; 8,000 gal. cold patch AE, to P. S. Kramer, 7 Smith St., Patetrson, at 9.25c. per gal.; 32,000 gal. cold patch KP, to Koppers Products Co., 60 East 42d St., New York, at 18c. per gal.; 420 tons calcium chloride, to Dow Chemical Co., 60 East 42d St., New York, at $24.87 per ton; 2,400 tons screenings, to Consolidated Stone & Gravel Co., Clove Rd., Montclair, at $1.34 per ton; 4,340 tons screenings, to Portland Sand & Gravel Co., Portland, Pa., at $1.34 per ton; 6,000 tons limestone screenings, to Limestone Products Corp., 405 Lexington Ave., New York, at $2.04 per ton; 2,000 tons 2½ in. and 1,000 tons ¾ in. stone, to Gallo Bros., Netcong, at $1.60 per ton; 18,000 tons lignum binder, to E. L. Latz, 1402 Greenwood Ave., Trenton, at $1.29 per ton. Noted Apr. 7.

TAR—**Trenton, N. J.**—Bd. Freeholders Mercer Co., Court House, tarring 37 mi. roadway and tarring and surfacing other roads, to Barrett Paving Co., Trenton Trust Bldg., $20,930 and $6,557 respectively. Noted Apr. 14.

CONTACT RAIL MATERIALS—**New York, N. Y.** — Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., contact rail insulators, to Ohio Brass Co., 50 Church St., $11,401; contact rail appurtenances, to W. G. Creamer & Co., 512 Smith St., Brooklyn, $10,611. Noted Apr. 7.

STEEL—**New York, N. Y.**—M. F. Kenny, deputy and acting comr. Purchase, Municipal Bldg., fabricated structural steel to Dpt. Plant & Structures, to Magor Car Corp., 50 Church St., $7,294. Noted Mar. 31.

STEEL—**Norristown, Pa.**—See "Unclassified."

PIPE—**Memphis, Tenn.**—Bd. Water Comrs., J. Sheahan, genl. supt., 105 North 2nd St., to United States Pipe & Fdry. Co., Webb-Crawford Bldg., Birmingham, Ala., 11,000 ft. 10 in. c.i. Class B pipe at 81c. per ft., 2,500 ft. 12 in. $1.076, f.o.b. Memphis, freight prepaid.

BITUMINOUS MATERIALS—**Virginia**—State Hy. Dpt., Richmond, 12,447,000 gal. bituminous surface materials for road work, to Standard Oil Company of New Jersey, 26 Bway., New York, and Texas Company, 135 East 42nd St., New York. To exceed $500,000. Noted Mar. 31.

BITUMINOUS MATERIAL—**Madison, Wis.**—Dane Co., 40,000 gal. Type E Grade 2 bituminous material and 100,000 gal. asphalt Type E, Grade 2, to Standard Oil Co., 414 Michigan Ave., Milwaukee, $21,360 and $5,340 respectively.

EQUIPMENT

PROPOSED WORK

BOILER—**Kansas City, Kan.**—Bd. Pub. Utilities, C. A. Lowder, secy., bids in May water tube boiler for municipal light and power plant. Burns & McDonnell Eng. Co., 406 Interstate Bldg., Kansas City, Mo., engrs.

LIGHT PLANT EQUIPMENT—**Amherst, O.**—See "Power Plants."

Equipment (Continued)

REFINERY EQUIPMENT—**Oklahoma City, Okla.**—Major Oil & Refining Co., c/o H. C. Fox, 2329 North Flynn St., re-equipping refinery.

BIDS ASKED

CONCRETE MIXERS, etc.—**Indiana**—May 6, by State Hy. Comn., State House Annex, 102 North Senate St., Indianapolis, 5 to 12 concrete mixers, incl. 2 to 6 of the Transit Mixer type 1 cu.yd. capacity and 3 to 6 Portable Mixer type, size 10-S. J. J. Brown, dir.

MANHOLE STEPS—**Boston, Mass.**—May 3, by City, Supply Dpt., P. A. Chapman, supt., manhole steps, etc., to Sewer Service as required.

FIRE ENGINES—**Paterson, N. J.**—City Comrs., City Hall, furnishing, delivering new fire engines for City Fire Dpt. $29,950.

MOTOR TRUCKS—**New York, N. Y.**—May 2, by M. F. Kenney, deputy and acting comr. Purchase, Municipal Bldg., motor trucks and automobiles for Dpt. Parks-Queens and Dpt. Water Supply, Gas & Electricity.

FIRE HOSE—**Tacoma, Wash.**—May 2, by Bd. Contr. & Supply, City Hall, annual supply 3,000 ft. 2½ in. cotton rubber lined fire hose in 50 ft. lengths with couplings. $1,800.

ENGINE — **Oshkosh, Wis.** — Lake Union Memorial Park, H. C. Hoppe, mgr., in market gasoline engine and centrifugal pump for well and pump pits at Memorial Park. Private plans.

CONTRACTS AWARDED

VALVES and HYDRANTS—**Baltimore, Md.**—City, furnishing, delivering valves, hydrants to Bureau Water Supply, to Michigan Valve & Fdry. Co., 3631 Parkinson St., Detroit, Mich., $22,000.

PUMP, etc.—**North Brookfield, Mass.**—Town, 1 centrifugal pump and motor, to Warren Steam Pump Co., East Main St., Warren, $1,001.

FOREIGN

Columbia, Cartagena—Frederick Snare Co., contractors, 114 Liberty St., New York, taking bids on separate contracts, incl. reinforcing steel, various materials for ocean and river port works, dredging, wharf, warehouses, custom house, rail connections, for connecting port with Magdelana River, for Government, Bogota. Total est. $2,850,000. Noted Apr. 10.

Mexico, Juarez—City preliminary surveying and planning municipal power plant to supply power for light system and waterworks pumping, etc. 100,000 pesos. Private plans.

Persia, Teheran — June 1, by General Manager Persian State Railway, for year's supply cold drawn boiler tubes, copper ferrules for boiler tubes and Babbits metal.

South Africa, Johannesburg—May 23, by General Manager South African Railways & Harbours Bd., supplying steel axles, tires, and wheel centers for year's use.

Union Socialist Soviet Republics — Soviet Govt., c/o Amtorg Trading Co., 261 5th Ave., New York, 62 million annual capacity can plant, by day labor and technical aid contracts, in Slaviansk, North Caucasus, **maturity soon**; and ship building plant for 90 dredges and 150 tugs annually, at Perm, Ural Region, $33,000,000, now building by technical aid contracts.

Union Social Soviet Republics — United Canned Milk Industries, c/o Amtorg Trading Corp., 261 5th Ave., New York, milk condensing and canning plant, Aulonomous Area, Mordovian; and milk condensery and cannery in Western Region, by technical aid contracts.

Commercial Buildings

PROPOSED WORK

Calif., Beverly Hills—S. S. Anderson, 1341 Benedict Canyon Dr., sketches, 12 story, 130 x 150 ft. hotel, Canyon Dr. and Monica Blvd. $1,000,000. Site purchased. **Maturity within 5 months.**

Calif., Eagle Rock—A. C. Mather, 500 South Lorraine Blvd., Los Angeles, sketches made Class A hotel. $2,000,000.

Calif., Los Angeles—S. H. Kress & Co., 1031 South Bway., soon lets contract 4 story, 60 x 120 ft., steel, concrete, rein.-con., terra cotta, metal skylights, plate glass, metal sash, brick and tile filler walls, etc., marble trim, 6606-12 Hollywood Blvd. $150,000. E. F. Sibbert, 114 5th Ave., New York, archt.

Calif., Oakland—Mills College postponed indefinitely construction 2 story, rein.-con. dormitory, on campus. $150,000. W. H. Ratcliff, Jr., Chamber of Commerce Bldg., Berkeley, archt. Noted Dec. 31.

Mass., Boston—Massachusetts College of Pharmacy, 179 Longwood Ave., Kilham, Hopkins & Grelley, archts., 9 Park St., soon lets contract 1 and 3 story, basement, brick, concrete, steel college of pharmacy additions, plain found., Longwood Ave. and Worthington Sts. $150,000 or more. Noted Apr. 7.

Mo., Kansas City—Bd. Educ., G. C. Tinker, secy., Library Bldg., soon takes bids Lincoln High School, 3 and 4 story, basement, 182 x 259 ft., concrete, brick, stone, incl. auditorium, 2 gymnasiums, library, etc., 21st St. and Woodland Ave. $600,000. C. A. Smith, 800 Finance Bldg., archt. Noted Jan. 28.

N. J., Fort Lee—P. C. Reilly, archt., 1111 5th Ave., New York, may award general contract about May 2, 3 story, basement, 70 x 215 ft., brick, steel school, Main St., for Sisters of Institute of Holy Angels Sister M. Corona, superior, $200,000. R. D. Fine, 31 Union Sq., New York, structural engr. Owner will purchase laundry equipment, orchestra and balcony seats, refrigerator, lighting fixtures and grading. Noted Jan. 28.

N. J., Hackensack—Sears, Roebuck & Co., Arthington and South Homan Ave., Chicago, Ill., bids within 30 days (selected list bidders) general contract 3 story, basement, tower, department store, Main and Harrison Sts. $1,000,000, incl. equipment. A. S. Alschuyler, 28 East Jackson St., Chicago, Ill., archt.

N. J., Hackensack—Societa Santa Croce, Camerina, c/o J. H. Liebau, archt., 238 Main St., rejected bids Apr. 5, general contract 2 story, basement, brick, steel club house, South Main and Pink Sts. $150,000. Noted Mar. 31.

N. J., Millville—Fourth Methodist Episcopal Church, C. DuBois, pastor, rebuilding 2 story church. $150,000. **Maturity indefinite.** Architect not appointed.

N. J., Montclair—Bd. Educ., State House, Trenton, bids in July on revised plans 2 story, basement, 180 x 190 ft., brick, stone, steel normal school addition, at Montclair Normal School grounds. $400,000. Former bids rejected. Guilbert & Betelle, 20 Branford Pl., Newark, archts. Noted Dec. 10.

N. J., Newark—Italian Catholic Union Holding Co., J. Soriano, in charge, 93 Bloomfield Ave., rescinded contract 2 story, basement, 60 x 100 ft., brick, steel club house, Summer Ave. and D'Auria St. $150,000. J. Centanni, 142 Market St., Newark, archt. **May mature in August.** Noted Feb. 25, under "Contracts Awarded."

N. J., Union City—Sears, Roebuck & Co. Arthington and South Homan Ave., Chicago, Ill., bids in 10 days (selected list bidders), 3 story, basement, tower department store. $1,000,000. Nimmons, Carr & Wright, 333 North Michigan Ave., Chicago, Ill., archts. Noted Mar. 24.

N. J., Wood Ridge—First Baptist Church, S. B. Scales, pastor, 2 story, basement, brick, steel, stone church, Valley Blvd. $150,000. **Maturtiy indefinite.**

N. Y., Brooklyn—Dpt. Hospitals, Municipal Bldg., New York, soon takes bids 4 story, 41 x 137 ft. doctors' dormitory, Kings County Hospital, Brooklyn Ave. and Winthrop St. $185,000. J. E. Kleist, 25 West 45th St., New York, archt. Noted Jan. 7.

N. Y., Buffalo—New York Telephone Co., 44 Church St., bids in November or later telephone building, 2035 Bailey Ave. $150,000. Voorhees, Gmelin & Walker, 101 Park Ave., New York, archt.

N. Y., Kings Park—Dpt. Mental Hygiene, State Office Bldg., Albany, bids late in May general contract hospital, at Kings Park State Hospital. $3,000,000.

N. Y., New York—Thirty-Seven East 57th Street Corp., 347 Madison Ave., plans by J. B. Peterkin and T. M. Bell, 285 Madison Ave., 16 story, 40 x 100 ft. office and display rooms.

O., Cincinnati—C. N. Handman, clk. Bd. Educ., 511 West Court St., bids in May, 3 story, basement, brick, rein.-con. school, plain found., Mears, Cambridge and Beacon Sts. $175,000. Kruckemeyer & Strong, St. Paul Bldg., archts. Noted Sept. 24.

Pa., Oil City—Bd. Educ., R. M. Stanton, pres., Beech Bldg., bids about May, Senior High School, 4 story, basement, 90 x 200 ft., brick, tile. $227,000. W. H. Crosby, Beers Bldg., archt. Noted Jan. 28.

Ont., Hillcrest—Chairman Bd. Educ. soon takes bids school. $150,000.

Que., Montreal—McGill University neurological institute hospital and laboratory building. $1,000,000. Project will be financed largely from $1,232,652 gift of Rockefeller Institute, 61 Bway., New York. Architect not appointed.

BIDS ASKED

Calif., Sacramento—Bd. Educ., C. Hughes, secy., taking bids 2 story, high school Sacramento Blvd, for Sacramento Junior High School Dist. $250,000. W. E. Coffman, Forum Bldg., archt.

Ill., Chicago—May 2 (extended date) by Century of Progress Exposition, Administration Bldg., Grant Park, Agricultural Exhibition Building, 2 story, basement, metal and composition siding, steel frame, Lief Ericson Dr. $350,000. E. H. Bennett, 80 East Jackson Blvd., Chicago, and A. Brown, Jr., 251 Kearney St., San Francisco, Calif., archts. Noted Mar. 31.

Ind., Indianapolis—May 10, by Bd. Comrs., A. G. Good, bus. dir., general contract, electrical installation, heating, ventilating, plumbing, sewer work, for remodeling Arsenal Building at Arsenal Technical School, 1500 East Michigan St. D. A. Bohlen & Sons, 1001 Majestic Bldg., archts.

Md., Owings Mills—May 4, by H. P. Hopkins, archt., 347 North Charles St., Baltimore, 3 story girls dormitory, brick, rein.-con., for Rosewood State Training School. Van R. P. Saxe, 217 North Calvert St., Baltimore, engr.

Mass., Ware—May 2, by Town, W. R. Barry, supt. schools, rebuilding Junior High School, 1 story, basement, brick, stone, plain found., Church St. $150,000. T. E. Madigan, 20 High St., archt.

N. J., East Orange—W. F. Bower, archt., 439 Main St., taking bids general contract altering and constructing 4 story, basement, brick, steel office, apartment, store addition, Main St., for A. Wosnitzer, 105 Wyoming Ave., South Orange. $150,000.

N. J., Kearny—C. G. Jones, archt., 133 Academy St., Belleville, bids about Apr. 21, general contract 2 story, basement, tower, brick church, and 2 story, basement education building, Liberty St. and Kearny Ave., for Grace Methodist Episcopal Church, F. S. Mead, pastor, 384 Kearny Ave. $150,000. Noted Apr. 21.

N. J., Madison—R. S. Shapter, archt., 382 Springfield Ave., Summit, bids about May 2, general contract community building, 2 story, basement, 65 x 150 ft. and two story, basement, 50 x 55 ft. wings, brick, steel, Kings Rd., Green and Maple Sts., for Bd. City Council, 2 Green Village. Est. $150,000. Noted Feb. 11.

N. J., Montclair—Price & Walton, archts., 1220 Locust St., Phila., Pa., taking bids general contract 2 story, basement, church, for Owner, c/o architect. $150,000.

N. J., Newark—See "Contracts Awarded."

N. J., Newark—W. E. Lehman, archt., 972 Broad St., bids about May 16, general contract altering and constructing 4 story, basement, brick, steel home addition, High and Kinney Sts., for Daughters Beth Israel Home of Aged, J. Stern, chn., 651 High St. $200,000. R. Kruger, 60 Branford Pl., assoc. archt.

N. J., Paterson—J. Holt, archt., 134 Market St., Paterson, and Owner, c/o archt., taking bids general contract 2 story, basement, brick, steel stores, office, Fair and Main Sts. $150,000. Noted Apr. 14.

N. J., Rahway—Bd. Educ., A. L. Perry, supt., High School, bids about May 9, general contract Junior High School, 2 story, basement, brick, steel, St. George St. and Central Ave. $300,000 funds appropriated. S. Williams, 146 Irving St., archt.

N. J., Union City—May 2, by P. L. Schultz, archt., 256 Summit Ave., general contract 2 story, basement, 75 x 115 ft., brick, steel store, office, Summit Ave., for Solomon & Slatkin, 170 Oak St., Weehawken. $150,000. W. Mahnken, 256 Summer Ave., assoc. archt. F. W. Woolworth, 1500 Chestnut St., Phila., Pa., lessee. Noted Apr. 14.

N. Y., Brooklyn—Sears Roebuck Co., Arthington and South Homan Aves., Chicago, bids about May 1 (selected list bidders), 3 story, basement, tower department store. $1,000,000 incl. equipment. Nimmons, Carr & Wright, 333 North Michigan Ave., Chicago, Ill., archts. Noted Mar. 24.

N. Y., Jamestown—May 6, by Adjutant General, Div. Military and Naval Affairs, Albany, state armory. $250,000. Noted Mar. 24.

N. Y., Middleburgh—Bd. Educ., bids about June 1, general contract school. $350,000. A. F. Gilbert, 358 5th Ave., archt. Noted Dec. 3.

N. Y., New York—See "Contracts Awarded."

O., Cincinnati—May 1, by Bd. Educ., 511 West Court St., 3 story, basement, rein.-con., brick school, plain found. Mears St. $175,000. Kruckemeyer & Strong, St. Paul Bldg., archts. Noted Sept. 24.

Pa., Pittsburgh—May 2, by W. T. Grant Co., 1441 Bway., New York, H. T. Williams, in charge of constr. (invitation only) 2 story, basement, brick, architectural terra cotta, granite, steel store, Market St. $150,000. P. A. Cunius, c/o owner, archt. Noted Mar. 24.

R. I., Kingston—Beta Phi Fraternity, R. C. Bates, 19 Barnes St., Providence, taking bids 3 story, basement, brick, stone fraternity house, plain found. $150,000. E. E. Cull, 75 Westminster St., Providence, archt. Noted April 21.

Tex., College Station—May 10, by A. & M. College, c/o W. Wipprecht, bus. mgr., materials and sub-contracts 4 story, tower, 51 x 186 ft., brick, rein.-con. cast stone geology building, campus. $200,000. F. E. Giesecke, College Station, college archt. Noted Nov. 12, under "Contracts Awarded."

Man., Tuxedo—May 7, by T. D. Whiting, official trustee School Dist. of Tuxedo No. 1709 addition to School 2, incl. steam heating and plumbing systems, for City, 804 Trust & Loan Bldg., Winnipeg.

CONTRACTS AWARDED

Calif., San Francisco—H. A. Minton, archt., Bank of Italy Bldg., general contract group rein.-con. college buildings, for Sisters of Sacred Heart, 1100 Franklin St., to D. Paganini, 519 California St., $254,897; plumbing, to A. A. Pollia, 401 14th Ave., $23,023; electrical work, to Alta Electric & Mechanical Co., 938 Howard St., $15,960; heating, to W. A. Aschen, 3000 East 16th St., Oakland, $32,788. Grand total, $326,668. Noted Mar. 17.

D. C., Wash.—Georgetown University, 4 story, basement, 90 x 190 ft. science recitation building, for College of Arts and Sciences, to C. H. Tompkins, 1608 K St. N. W. Est. $500,000. Noted Jan. 23, 1930.

Fla., Daytona Beach—S. H. Kress & Co., 114 5th Ave., New York, department store, to B. Miller Constr. Co., Tampa. Est. $150,000.

Ill., Chicago—Vincent Bendix Sponsor, 105 West Adams St., Replica Chinese Temple, 1 story, balcony, 60 x 60 x 60 ft., imported materials throughout, incl. teak and rare woods,

Commercial Buildings (Continued)

gilded copper roof, to Harry Ericsson Co., 228 North La Salle St., for Century of Progress, Administration Bldg., Grant Park.

Ia., Ottumwa—John Morrell & Co., general contract 7 story, basement, irregular sized rein.-con., brick, steel cooling and storage building, to T. Slack Co., 118 South 11th St., West Cedar Rapids. Est. $300,000. Noted Feb. 4.

La., New Orleans—Rathbone De Buys, archt., Hibernia Bank Bldg., 3 story, basement, 62 x 228 ft., brick, stone parochial school, incl. cafeteria, mechanical plant, pile found., to L. Favret, Louisiana Bldg., for Most Holy Name of Jesus Congregation, Loyola University. $185,-000. Noted Jan. 14.

N. H., Durham—D. Williamson, c/o A. Perreton, archt, c/o University of New Hampshire, Durham, 3 and 1 story, basement, brick, concrete apartment, garage, plain founds., to Davison & Swanberg, 61 Amherst St., Manchester. Est. $150,000. Noted Apr. 21.

N. J., Newark—C. Kelner, c/o M. Kimmel, archt., 214 Wainwright St., 3 story, basement, brick, steel apartment, 10 Hazel Pl., separate contracts. $150,000.

N. J., Union City—St. Michael's Church Passionist Monastery, 381 West St., general contract 2 story, basement, chapel, to J. B. Roy & Son, 21 Silver St., Springfield, Mass. Est. $150,000. Taking separate bids on heating, plumbing, electrical work. Noted Mar. 31.

N. Y., Aurora — Hegeman Harris Co., contractors, 360 Madison Ave., New York, concrete and cement work for 2½ story administration building, to Stewart & Bennet, Inc., Aurora, for Wells College. Est. $250,000. Excavation started. Noted Feb. 18, under "Contracts Awarded."

N. Y., Great Neck—Temple Beth El, Great Neck, temple school, gymnasium, to E. Tintera, 65 Clover Dr., Great Neck. To exceed $150,000. Noted Apr. 21.

N. Y., New York—W. R. Hughes, 250 8th Ave., 9 story, 70 x 75 ft. apartment, 43 East 10th St., day labor and separate contracts. To exceed $150,000. W. C. Tobey, 250 8th Ave., archt.

O., Cleveland—Church of the Ascension, W. G. Studwell, pastor, 13216 Detroit Ave., 1 and 2 story, 49 x 145 ft., brick, stone, steel, concrete church addition and parish house, to Gilchrist Constr. Co., Berea. Est. $150,000.

O., Dayton—Bd. Educ., Northridge Rural School Dist., E. W. Coy, clk., R.R. 5, general contract 2 story, basement, 134 x 150 ft., brick, rein.-con., high school, plain found., to Branch Constr. Co., 102 Hartford St., Columbus, $101,-627. Noted Mar. 17.

Pa., Laurelton—Commonwealth of Pennsylvania, Dpt. Properties & Supplies, Capitol Bldg., Harrisburg, native stone administration building and 2 cottages, concrete found., at Laurelton State Hospital, to A. Snyder, Tamaqua, $145,000.

Pa., Pottstown—Bd. Educ., F. C. E. Malhouse, secy., 851 North Evans St., Junior High School, 3 story, basement, 297x323 ft., rein.-con., brick, to A. W. Funk Co., Commercial Trades Bldg., Phila. Contractor taking bids on sub-contracts, incl. 200 tons structural steel.

Wis., Appleton—Lawrence College, H. M. Wriston, pres., 2 story, basement, 50 x 78 ft., rein.-con., brick library, to Immel Constr. Co., 19 West Division St., Fond du Lac. Noted Mar. 24.

Wis., Green Bay—St. Johns Catholic Congregation, J. Martin, chn. building com., 4 story, rein.-con. steel school, to J. C. Basten, 817 South Quincy St. Noted Mar. 10.

Wis., Menasha—Bd. Educ., H. E. Landerof, secy., brick, rein.-con., steel school, to E. H. Regal Constr. Co., 1303 Shawano Ave., Green Bay. Est. $150,000.

Wis., Port Edwards—Village, general contract Senior High School, to A. F. Billmeyer & Son, 172 2nd St., Wisconsin Rapids. Est. $165,000. Noted Mar. 24.

Industrial Buildings

PROPOSED WORK

Calif., Avon—Associated Oil Co., 79 Montgomery St., San Francisco, soon lets contract lubrication oil plant. $250,000.

Calif., Exeter—Exeter Ice & Fuel Co., 1 story, 100 x 150 ft., brick, wood, stucco distributing plant.

Ia., Emerson—City Council, new well turbine pump, pump house, 4 in. c.i. main. K. Young, 2039 North 50th St., Omaha, Neb., engr.

Ia., Grand Junction—City, new election May 12, on question of establishing, erecting, extending, maintaining and operating within or without corporation limits electric light and power plant with poles, wires, machinery, incl. 1 story, 37 x 47 ft. brick building, two 265 hp. Diesel engines or two 240 hp. engines, two 185 kw. electric generators directly connected to Diesel engines or two 175 kw. generators, also distribution system to cover entire city. $85,000 maximum amount, to be paid for out of future earnings of plant. G. J. Long, Webster City, engr., in charge of plans for proposed plant. Noted Apr. 21.

Mo., Farmington — Farmington Chamber of Commerce, and Rice Stix Dry Goods Co., 1000 Washington Ave., St. Louis, bids in May, 2 story, part basement, 100 x 135 ft. shirt factory, rein.-con., brick, concerte found. $50,000. J. Boehmer, c/o Rice Stix Dry Goods Co., engr. Noted Mar. 24.

Mass., Haverhill—A. and F. E. Kelly, reconstructing 1 story, brick, steel garage, destroyed by fire, Main St. $75,000. Architect not appointed.

Mass., Malden—Barrett Co., 40 Rector St., New York, tar and roofing projects manufacturing plant and storage. $100,000. Site acquired.

Minn., Morris—City engaged R. J. Torrens, consult. engr., Shubert Bldg., St. Paul, to make study and design municipal power plant and whiteway.

Minn., Red Wing—City Council voted to erect power plant. $800,000. R. J. Torrens, Shubert Bldg., St. Paul, retained as consult. and designing engr.

N. J., Bayonne—Hartol Products Corp., 117 Liberty St., New York, leased site from Richfield Oil Co., 122 East 42nd St., New York, and plans oil bulk storage plant, 80,000 bbl., Avenue A and West 1st St.

N. J., Clifton—Forstman & Hoffman Co., 2 Barbour Ave., Passaic, plans in progress two 1 story, basement, brick, steel boiler house plants, Lake and Randall Aves. $40,000. M. Heiser, 2 Barbour Ave., Passaic, engr.

N. J., Elizabeth—A. J. Silberstein, 892 18th Ave., Newark, new bids in August on revised plans 1 story, basement, brick, steel abattoir addition, Laurel St., for Feldman Bros., A. Feldman, in charge, Laurel. $40,000. Noted Mar. 17.

N. J., Hoboken—Hoboken Land & Impvt. Co., 1 Newark St., paper manufacturing plant, Monroe and Madison Sts., between 9th and 11th Sts. $400,000. **Maturity indefinite.** Architect not appointed. Hinde & Dauch, 253 Water St., Sandusky, O., lessee. Noted Jan. 21.

N. J., Newark—Alling Corp., 33 Ward St., revised plans by W. E. Lehman, 972 Broad St., 1 story, basement, brick, steel garage, 36-42 Columbia St. $42,000. Former bids rejected. U. S. Post Office Dpt., Wash., D. C., lessee.

N. J., Newark—H. D. Scudder, Jr., archt., 9 Clinton St., soon lets general contract, 3 story, basement, brick, steel, paint manufacturing plant, Frelinghuysen Ave., for J. J. Hochenjos Co., 829 Broad St. $40,000.

N. J., Newark—Standard Oil Co. of New Jersey, 26 Bway., New York, soon lets contract 1 story, basement, 90 x 100 ft., brick, steel auto service station and various equipment, Elizabeth Ave. and Runyon St. $40,000. Private plans.

N. Y., Brooklyn—F. H. Bookhop Broom & Brush Co., 451 38th St., bids in July or later general and separate contracts 2 story, 25 x 96 ft. garage and storage, 38th St. and 5th Ave. M. Klein, 65 Court St., archt. Noted Apr. 14.

N. Y., Brooklyn—M. Friedman, 236 Montgomery St., bids in August or later, general contract, 100 x 120 ft. service garage, Utica Ave. and Winthrop St. S. S. Malkind, 93 Court St., archt. Noted Apr. 14.

N. Y., Brooklyn—L. Schwartz, 634 Elton St., bids in November, general and separate contracts 1 story, 60 x 100 ft. service garage, Ashford St. and New Lots Ave. I. Kirshenblit, 1125 Eastern Parkway, archt. Noted Apr. 14.

N. Y., Fort Edward—Fort Edward Brewery reconstructing brewery. To exceed $150,000 **Maturity indefinite.**

N. Y., New York—Morris Marks, 470 East 133rd St., sketches by J. J. Gloster, 303 West 42nd St., 2 story, 125 x 190 ft. service garage, 132nd St. and St. Ann's Ave. To exceed $115,000.

N. C., Salisbury—Rowan Cotton Mills, Salisbury, soon lets contract constructing addition and re-equipping manufacturing plant. $50,000.

O., Amherst—Village, C. A. Miller, clk., improvements at light plant, incl. new building $10,000, equipment $60,000. F. W. Straus, 2613 Queenstown Rd., Cleveland, engr.

Okla., Idabel—City, N. P. Stephens, mayor, preliminary plans municipal electric light plant. $100,000. F. D. Taffe, Idabel, engr.

Okla., Oklahoma City — Kroger Grocery & Baking, 810 Northwest 4th St., soon lets contract 1 story, basement, brick warehouse. $150,-000. Site not selected. Private plans.

Okla., Oklahoma City—Sterling Refining Co., c/o B. F. Green, Hunt Bldg., Tulsa, enlarging and addition to refining and cracking stills. $40,000.

Pennsylvania—Commonwealth of Pennsylvania, Dpt. Hys., S. S. Lewis, secy., Harrisburg, 23 brick, steel storage buildings, various locations. $750,000.

Pa., Allentown—Freihofer Baking Co., Union Blvd., rebuilding baking plant, destroyed by fire. To exceed $40,000. **Maturity indefinite.**

Pa., Greenville—Greenville Steel Car Co. building and equipping machine shops and pattern works. $40,000.

Pa., New Castle—Citizens Lumber Co., rebuilding lumber yards plant destroyed by fire. To exceed $40,000. **Maturity indefinite.**

S. D., Sioux Falls—City, W. C. Leyse, aud., improving municipal power plant, installing additional Diesel engine equipment. $85,000. Pillsbury Eng. Co., 1200 2nd Ave., S., Minneapolis, Minn., engrs.

S. D., Sioux Falls—General Manganese Co., 155 West Congress St., Detroit, Mich., 1st unit refinery. $200,000.

Tex., Beaumont—Magnolia Petroleum Co. reconstructing refinery damaged by fire. To exceed $150,000. **Maturity indefinite.**

Tex., Houston—Continental Can Co., 1 Pershing Sq., New York, bids after July 1, manufacturing plant. $100,000. Favrot & Livaudais, Hibernia Bldg., New Orleans, La., archts. Noted Mar. 31.

Tex., Texarkana—Butter Nut Bread Co., c/o A. C. Wortham and O. J. Johnson, Texarkana revised plans by Witt, Seibert & Halsey, Texarkana Natl. Bank Bldg., and soon takes bids 2 story, 75 x 125 ft., brick, concrete bakery, 10th and State Sts. $50,000. Noted Apr. 14.

Utah, Ogden—City canvassing citizens as to attitude toward municipal power plant. $200,-000. J. C. Brown, city engr.

Wash., Seattle—Bd. P. Wks. bids about May 13, 65 x 230 ft. concrete superstructure on existing foundations for Diablo Power House; power house tail race; assembly and erection machinery, incl. two 67,500 kva. hydro-electric generating units, step-up transformers, and auxiliary equipment; furnishing, installing switchboards, control wiring, switches, switch-structures, etc.; constructing 220 kv. double circuit steel tower line, 5.75 mi. from Diablo plant to connect with existing Gorge transmission line, incl. 19 steel towers, etc.; constructing concrete protecting apron for north spillway of Diablo Dam. Noted Jan. 1, under "Contracts Awarded."

BIDS ASKED

Conn., Middletown—Apr. 30, by General Importing Macaroni Mfg. Co., 63 Court St., 2 story, 40 x 95 ft., brick macaroni manufacturing plant, Court St. $40,000. C. E. Segerberg 438 Main St., archt. Noted Apr. 14.

Ind., Ft. Wayne—May 10, by S. S. Snyder, secy. City Light & Power Co., new brick, steel boiler room. $200,000. Private plans.

Mass., Quincy—See "Contracts Awarded."

N. Y., Brooklyn—See "Contracts Awarded."

N. Y., Brooklyn—Lama & Proskauer, archts., 383 Jay St., bids about May 9, 1 story, 40 x 100 ft. brick laundry, 61st St. and East 13th Ave., for Daylight Wet Wash Laundry, Inc., C. De Angelo, pres., 1321 61st St. Noted Mar. 24.

N. Y., New York—See "Contracts Awarded."

N. Y., Ossining—May 19, by Commissioner Correction, State Office Bldg., Albany, storehouse at Sing Sing Prison; adv. E. N.-R. Apr. 28.

N. Y., St. Albans—See "Contracts Awarded."

Va., Richmond—May 4, at office B. K. Compton, dir. P. Wks., City Hall, 2 story, 77 x 228 ft., steel frame and sides transit shed and warehouse, along Municipal Wharf between Gillies Creek and foot Nicholson St.

CONTRACTS AWARDED

Mass., Dedham—W. E. Burke, 51 East St., concrete storage, East St., separate contracts. Private plans.

N. J., Newark—H. C. Hammell, archt, c/o Hoyt Bros., owner, 100 Shipman St., 8 story, 57 x 80 ft. chemical plant addition, to Fassler Contr. Co., Hill St., Newark. Contractor awarded contract for 270 tons structural steel, to Passaic Steel & Iron Co., East Rutherford. Total est. $150,000. Noted Mar. 17.

N. Y., Brooklyn—Bordens Farm Product Co., 110 Hudson St., New York, altering pasturizing plant, incl. elevator shafts, to Burwak Electric Co., 390 East 16th St. Noted Mar. 17.

N. Y., Brooklyn—Epstein & Schoor, 4th Ave. and 3rd St., 40 x 100 ft. service garage, 4th Ave. and 3rd St., separate contracts. W. C. Lacerenza, 16 Court St., archt. Noted Mar. 31.

N. Y., Brooklyn—J. Harms Auto Laundry Delivery Co., 277 Moffat St., 100 x 100 ft. gas station, service garage, Moffat St. and Knickerbocker Ave., separate contracts. G. I. Prowler, 367 Fulton St., archt. Noted Apr. 14.

N. Y., Brooklyn—One Thousand Five Hundred Twenty Pitkin Avenue Holding Corp., 905 Linden Ave., 2 story, 38 x 84 ft. storage and store, Pitkin and Saratoga Aves., separate contracts. M. Rothstein, 186 Joralemon St., archt.

N. Y., Brooklyn—J. J. O'Brien, 233 Bway., New York, 2 story, 78 x 109 ft. storage and store, Church and Coney Island Aves., day labor and separate contracts. $75,000 or more. C. A. Pierce, 419 4th Ave., New York, archt. Noted Mar. 24.

N. Y., New York—Film Center, Inc., A. N. Adelson, pres., 9th Ave. and 44th St., altering building for film industries 9th Ave. and 44th St., day labor. $40,000. National Screen Service Corp., W. B. Brenner, 126 West 46th St., lessee, will purchase equipment.

N. Y., St. Albans—F. Vitale, 7035 69th St., Glendale, 2 story, 50 x 100 ft. bakery, Foch Blvd. and 220th St., separate contracts.

Ont., Niagara Falls—Carborundum Co., steel, brick, concrete factory addition to Gardney Constr. Co., Welland; structural steel, iron, to Reid & Brown Structural Steel Wks. Ltd., 63 Esplanade E., Toronto. Est. $250,000.

Ont., Toronto—R. G. Kirby & Sons, general contractors, 539 Yonge St., awarded separate contracts for plant addition, for Exide Batteries of Canada Ltd., 153 Duffield St. Total est. $40,000.

See proposal advertising on page 85

CONSTRUCTION NEWS

SECTION OF ENGINEERING NEWS-RECORD—MAY 5, 1932

WATERWORKS

PROPOSED WORK

Calif., Oakdale—Oakdale Irrigation Dist., pumping plant to furnish water for irrigating 200 acres land, Lone Creek vicinity.

Calif., San Luis Obispo—State Dpt. P. Wks., Div. Architecture, Sacramento, rejected bids Apr. 12, 200,000 gal. rein.-con. water tank at Polytechnic School. Will probably take new bids.

Mass., Swampscott—Town, plans in progress 1 story, brick pumping station, Humphrey St. $15,000. W. Pratt, Town Hall, engr. Noted Apr. 28.

Mich., Ann Arbor—City authorized construction 12 in. watermains from reservoir on Sunset Rd. to University Dist., with booster pump at Hill St. and Oxford Rd. $25,000. G. H. Sandenburg, Ann Arbor, engr. Noted July 23.

Mo., Jefferson City — City Council passed resolution calling for appointment of commission to investigate possibility of municipal waterworks. At present city is served by private company.

N. Y., Walkill—Comrs. Correction, State Office Bldg., Albany, rejected bids Apr. 7, water supply. Noted Mar. 24.

O., Akron — Council passed ordinance for 3,600 ft. 20 in. main from West Market St. to Ridge Rd. on Chestnut Rd. from Chestnut to Barnstable Rd., on Ridge Rd. to Fairlawn Reservoir.

Wash., Bremerton—City received no bids Apr. 18, 16,000 lin.ft. 2- to 8-in. c.i. and 500 ft. ¾ in. galvanized iron pipe, gate valves, fittings for waterworks for Marine Water Dist. $25,000. Will readvertise. C. C. Cascod, city engr.

Wash., Seattle—City Council Utilities Comn., investigation to determine necessity for immediate replacement Old Cedar River Pipe Lines 1 and 2. $600,000. A. F. Marion, water supt. proposed bids be called for on steel concrete and creosoted wood pipe and that contractor be paid in five year securities for Water Dpt. owing to unfavorable condition for bonds sales.

BIDS ASKED

Calif., Los Angeles—See "Streets and Roads."

Ind., Ft. Wayne—May 10, by City, constructing feeder, incl. 30 and 24 in. c.i. pipe, for New Three Rivers filtration plant. $15,000. Hoad-Decker, Shoecraft & Drury, Ann Arbor, Mich., engrs.

Mass., Medfield — May 10, by Dpt. Mental Diseases, State House, 1 story, brick pumping station, machinery at State Hospital. J. J. Van Valkenburgh, Framingham, engr. Noted Mar. 31.

Mont., Great Falls—See "Contracts Awarded."

Wash., Tacoma—See "Contracts Awarded."

B. C., Vancouver—May 27, by E. A. Cleveland, ch. comr., pipe equipment for controls at north and south shafts of Greater Vancouver Water District's First Narrows Pressure tunnel, incl. 2 steel shaft caps with 4 outlets, complete adn ready for erection, 8 cast steel blind flanges, 48 in. diam., 640 bolts and nuts, 680 studs and 1,360 nuts, shop tests at 660 lb. per sq.in., total weight of materials is about 65 tons, 16 cast steel pipes and pipe bends, shop test at 660 lb., weight approximately 75 tons, two 48 in. cast steel gate valves and one 36 in. cast steel or cast iron (semi steel) gate valve. Alternate figures on 3 cast steel hand operated cone valves will also be considered.

CONTRACTS AWARDED

Conn., North Branford—New Haven Water Co., 100 Crown St., New Haven, 1 story, brick, rein.-con. chlormeter building at Lake Gaillard. Owner builds. Private plans.

Ill., Chicago—Century of Progress, Administration Bldg., Grant Park, A. Gonsior, in charge, drainage system, water supply, force main, pumping house, etc., watermains, to G. D. Hardin, 3139 Indiana Ave.; 3,180 ft. 8- to 24-in. clay and concrete sewers, to T. J. Pendergast, 192 North Clark St.; plywood pump house and force main, to H. D. Hudson Mfg. Co., 539 East Illinois St. Total est. $30,000. Noted Apr. 28.

Ill., Peoria — Greater Peoria Sanitary Dist., general contract 1 story, brick pump house, to Reinhard-Iben Co., Peoria Life Bldg., $2,420. Bids in on driven well, 12 in. diam., 70 ft. deep, casing, screen, appurtenances, 250 g.p.m. turbine deep well pump, pressure tank, compressor, gages, starter. Pierce, Greeley & Hansen, 6 North Michigan Ave., Chicago, engrs.

Ia., Ottumwa—F. Vaughn, city clk., 8 m.g. settling basin with rein.-con. slope and bottom, earth embankment, 8 m.g.p.d. rein.-con., brick, steel filtration plant, 5 m.g. clear water basin, rein.-con. slope and bottom, earth embankment, widening present headrace from Des Moines River to hydro-electric plant to 200 ft. waterway, to Meier Bros., Ottumwa, actual cost plus $31,000. Total est. $205,000, incl. 100 ft. steel bridge span. Noted Mar. 17.

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Mass., Wellesley — Town, laying c.i. water pipe, to L. P. Federico & Sons, 43 Westwood St., Dorchester, $12,000; vitr. pipe, to C. H. Spring, 27 Washington St., Newton, est. $5,000; sewer pipe, to M. DeSisto Co., 98 La Grange St., West Roxbury, $13,000.

N. Y., Fire Island—See "Unclassified."

Tex., Arp—Water and sewerage system, to Trinity Constr. Co., Houston, $70,000. Noted Feb. 4.

S. D., Vermilion—City Council furnishing, installing 220,000 gal. steel reservoir, 56 ft. in diam., 13 ft. high to Pittsburgh-Des Moines Steel Co., 1015 Tuttle St., Des Moines, Ia., $5,425; piping work, to B. Malone, Vermilion, $1,049. Noted Mar. 31.

Wash., Cle Elum—City, two 500,000 gal. concrete stand pipes, to W. F. Way, 1118 4th Ave., Seattle, $16,500. Est. $30,000.

Wash., Tacoma—City, replacing wooden main with 12 in. c.i. main in South 56th St. from Cedar St. to Clement Ave., day labor. $8,700. C. E. Putnam, Tacoma, engr.

SEWERS

PROPOSED WORK

Mass., Boston—City Council votes $1,000,000 appropriation for sewerage work. J. A. Rourke, Dpt. P. Wks., comr.

Nev., Sparks — Preliminary plans drainage sewer in D St., from 13th to 14th Sts. with laterals in cross streets. $30,000. C. Taylor, city engr. Noted Apr. 21.

S. D., Sioux Falls—Bids probably in fall, sewage disposal plant improvements. $150,000. Pillsbury Eng. Co., 1200 2nd Ave. S., Minneapolis, Minn., engrs.

BIDS ASKED

Calif., Los Angeles—See "Streets and Roads."

Kan., Colby—May 19, by City, E. V. Snell, clk., sewers and sewage disposal plant, incl. main outfall sewer, 3,800 lin.ft. 0 to 16 ft. cut trenching and backfilling, furnishing, laying 90 lin.ft. 10 in. and 3,678 lin.ft. 15 in. vitr. clay pipe, 32 lin.ft. 16 in. c.i. pipe, sixty 6 x 15 in. Y's, 9 manholes complete, 25 ft. extra depth manhole, 1 catch basin, screening chamber, screens, sluice gates, Imhoff tank, sludge beds, valves, pumps, sidewalks, grading, etc. E. T. Archer & Co., New England Bldg., Kansas City, Mo., engrs.

Mass., Pittsfield—See "Contracts Awarded."

Mass., Stoneham—See "Contracts Awarded."

Mich., Monroe—May 9, by J. H. Eber, city clk., 12- to 24-in. vitr. or concrete sewer, North Monroe. $25,000. S. M. Weaver, Monroe, city engr.

N. Y., New York—May 10, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in Eastern Blvd., White Plains Rd., Wickham, Furman, Fteley, Sound View and Noble Aves., East 239th, 240th, East 241st, Ouen Sts.

Pa., Chester—May 17, by City Council, at office C. H. Hunter, dir. Pub. Impvts., City Hall, Ridley River Interceptor from Chester City Line of Park Boro to 2nd St. and Edgmont Ave., Contr. 16, incl. 1,500 ft. 6- to 15-in. vitr. pipe, 16,800 ft. 18- to 30-in. rein.-con. pipe, 6,500 ft. 36- to 42-in. rein.-con. pipe, inverted siphon, 3 tide gate chambers, 3 regulator chambers, appurtenances. R. E. Heacox, city engr. R. C. Wheeler, 36 State St., Albany, N. Y., consult. engr.; adv. E. N.-R. May 5. Noted Mar. 22.

Man., Brandon—See "Contracts Awarded."

CONTRACTS AWARDED

Calif., Los Angeles—Bd. P. Wks., City Hall, Sect. 3 San Pedro Intercepting Sewer in Harbor Blvd. and Wilmington and San Pedro Rd. between Pacific Ave. and 6th St., to Gogo & Rados, 10024 South Figueroa St., $43,960.

Md., Baltimore—Bd. Awards, 100 ft. 19 ft. 6 in. x 4 ft. 6 in. rectangular rein.-con. drain, 2,320 lin.ft. 3 ft. 6 in. x 3 ft. x 6 in. rectangular rein.-con. sewer, 3,285 lin.ft. 2 ft. 9 in. x 2 ft. 9 in. and 3 ft. 6 in. x 4 ft. 6 in. rectangular rein-con. sewer in Sewer Dist. H-11, Sanitary Contr. 280, to Angelozzi Contg. Co., 123 South High St., $75,705. Noted Apr. 14.

Mass., Canton—Town, sewerage extension, to Anthony Ross & Son, 87 Bedford St., Lexington, $12,525. Noted Feb. 25.

Mass., Pittsfield — City, extending sewerage and drainage systems, day labor. $55,000 appropriated.

Mass., Stoneham — Town, Superintendent P. Wks., sewers and force mains, town labor. Weston & Sampson, 14 Beacon St., Boston, engrs. Former bids rejected.

Mass., Wellesley—See "Contracts Awarded."

Minn:, Worthington—Sewage disposal plant, screen chamber, lift station, clarifier with mechanism digester, rock filter, humus tank, sludge bed, and necessary piping, to Graves Bros., Melvin, Ia., $51,009. Est. $55,000. Noted Apr. 14.

Mont., Butte—Sewerage system and sewage disposal plant in Special Impvt. Dist. 9, Floral Park addition. $31,698. M. Loughran, city engr.

O., Columbus—F. L. Donnally, clk. Franklin Co., plans completed 1,495 ft. 21 in., 240 ft. 18 in., 2,555 ft. 15 in., 1,015 ft. 12 in., 800 ft. 10 in., 375 ft. 6 in. vitr. clay sewer, 22 manholes in Lane Ave., Project 155. $15,000. E. G. Bradbury, Court House Annex, engr.

O., Columbus—W. P. Helenkamp, dir. Serv., completing contract standby tanks on Whittier St., involving 17,000 cu.yd. excav., 12,200 cu.yd. rolled embankment, 3,700 cu.yd. top soiling, 3,200 sq.yd. concrete paving, installing slush gates, etc., to L. L. Aller, 847 Hart Rd., $37,142. Noted Apr. 7.

O., Elyria—City plans completed 2 sewage ejector stations and pipe lines. $20,000. G. B. Gascoigne, Leader Bldg., Cleveland, engr.

Pa., Hatboro—Boro, sanitary sewerage system, Contr. 2, to Knox-Mariani Co., Ardmore. $37,225. Noted Mar. 10.

Va., Richmond—Dpt. P. Wks., City Hall, 12 sewer projects, to Hughes & Keegan, Real Estate Exch. Bldg., $16,582; Floyd Avenue Relief Sewer, to A. E. Cheatwood, 4500 Cutshaw Ave., $1,406; Lombardy St. Sewer, to W. J. McLane, Richmond, $1,803; rein.-con. pipe, to Economy Concrete Co. of Virginia, Central Natl. Bank Bldg., $5,759; 27 in. pipe, to Gray Concrete Co., Thomasville, $555. Grand total $26,105. For 1,200 tons alum for filtration plant, to Grasselli Chemical Co., 629 Euclid Ave., Cleveland, O. Noted Apr. 14.

Man., Brandon—City, 24 in. concrete trunk sewer 6,800 ft. to point 1,500 ft. east of city limits, day labor. $46,722. W. H. Shillinglaw, City Hall, engr.

Man., Churchill—Provincial Govt., Parliament Bldgs., Winnipeg, temporary sewerage system for hotels and boarding houses in connection with opening of the port this summer. $50,000. Address Hon. W. R. Clubb, Parliament Bldgs., Winnipeg, minister P. Wks.

BRIDGES

PROPOSED WORK

California — State Hy. Comn., Sacramento, soon takes bids 1,233 ft. rein.-con. bridge, 54 ft. roadway, two 5 ft. sidewalks over Ventura River at Main St., Ventura Co., using concrete from old superstructure as rip-rap for banks of river. $350,000. C. W. Jones, c/o owner, engr.

Massachusetts — Commonwealth of Massachusetts, Dpt. P. Wks., Boston, plans approved by Ways & Means Com., for Point of Pines Bridge between Lynn and Revere. $1,315,000. A. W. Dean, Dpt. P. Wks., engr. Noted Nov. 12.

Mass., Brookline — Town soon takes bids concrete, steel bridge over railroad tracks, Dean Rd. $25,000. H. A. Varney, Town Hall, engr.

Mass., Dedham—Town, Bd. Selectmen, bridges and hys. $95,130 appropriated.

Mass., Foxboro — Town, Bd. Selectmen, bridges, hys. $26,900 appropriated.

O., Milan—H. Gerold, resident state hy. engr., drawing preliminary plans 2,000 ft. bridge Edison Memorial Hy. near juncture State Roads 59 and 61. $500,000. O. W. Merrell, Columbus state hy. dir.

See proposal advertising on page 67

LEADITE

Trade Mark Registered U.S. Pat. Office

14 Mile line of 24" Water Main *jointed with* LEADITE

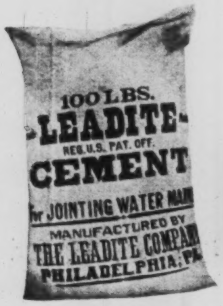
The picture shows part of line passing under railroad tracks. Such installations are frequently subjected to vibration and shock.

LEADITE has been used for over a Quarter Century,—for jointing bell and spigot water pipe from 4 in. to 84 in. in diameter. That LEADITE has given a "good account" of itself is best attested to by the fact that it is the most well known, most frequently specified and most widely used self-caulking jointing material.

Thousands of miles of bell and spigot pipe are jointed with LEADITE.

The pioneer self-caulking material for c. i. pipe.
Tested and used for over 30 years.
Saves at least 75%.

THE LEADITE COMPANY
Girard Trust Co. Bldg. Philadelphia, Pa.


100 LBS.
LEADITE
REG. U.S. PAT. OFF.
CEMENT
for JOINTING WATER MAINS
MANUFACTURED BY
THE LEADITE COMPANY
PHILADELPHIA, PA.

No Caulking

Bridges (Continued)

Pa., Pittsburgh—City, improving Smithfield Street Bridge, incl. new floor, steel and concrete. $40,000. **Maturity indefinite.** C. M. Reppert, City-County Bldg., engr.

Rhode Island and Connecticut—States of Rhode Island and Connecticut, plans approved 3 span T-beam, rein.-con. bridge over Pawcatuck River, between Westerly, R. I., and Stonington, Conn. $75,000. Noted Jan. 7.

Tex., Beaumont — Jefferson Co. and State, soon takes bids rein.-con., steel, timber bridge over Intracoastal Canal. $157,000. Address State Dpt. or B. B. Johnson, co. judge, Beaumont.

BIDS ASKED

Calif., Los Angeles—May 16, by Bd. Supervs. Los Angeles Co., bridge, steel girder type, concrete piers, decks, railings to have twelve 40 ft. spans, 54 ft. roadway, two 7 ft. 2½ in. sidewalks, rock riprap along abutments and approaches over Los Angeles River at Firestone Blvd.

Indiana—May 10, by State Hy. Comn., Indianapolis, bridge over White River, incl. 3,685 cu.yd. Class D, 6,865 cu.yd. Class E concrete, 715,489 lb. bars, 45,860 lin.ft. piling, Rd. 31, Contr. 501, Marion Co. J. J. Brown, dir.

Kansas—See "Streets and Roads."

Kentucky—See "Streets and Roads."

La., New Orleans—May 12, by E. F. Mitchell, ch. engr. Texas & Pacific R.R. Co., Dallas, Tex., at office H. G. Lytell, engr. Texas & Pacific R.R. Co., 1184 Annunciation St., bridge found. consisting of two 27 x 69 x 30 ft. and two 20 x 30 x 48 ft. concrete piers for railroad tracks over Harvey Canal. $75,000 appropriated.

Maryland—May 10, by State Roads Comn., Baltimore, G. C. Uhl, chn., concrete bridge floor, surfacing approaches for bridge (now under construction), Contr. F-175-1-57, Frederick Co. —triple span steel girider bridge, Contr. G-75-67, Garrett Co.—all electrical work necessary for complete electric lighting for 2 bridges, Contr. Ce-108-27, Cecil Co.—and Contr. D-79-1-17, Dorchester Co.; adv. E. N.-R. May 5.

Mich., Manistee—May 19 (extended date), at office Chief Engineer State Hy. Dpt., Lansing, Trunk Line Bridge 1 of 51-6-1, Contr. 3, bascule bridge Manistee Twp., Manistee Co.; adv. E. N.-R. May 5. Noted Apr. 21.

Neb., Stanton—May 10, at office W. F. Fullner, clk. Stanton Co., constructing and repairing bridges, during 1932, also bridge materials, incl. standard sawn lumber, red cedar and yellow pine piling.

New Jersey—May 18, by State Hy. Comn., Trenton, bridge over Beach Thorofare at 9th St., Ocean City. A. L. Grover, ch. clk.; adv. E. N.-R. May 5.

O., Garrettsville—Comrs. Portage Co., Garrettsville, bids about June 18, replacing old stone bridge with 100 ft. concrete bridge, 50 ft. wide, to have 4 columns at corners, concrete railings, 40 ft. roadway, two 5 ft. sidewalks. $35,000. County and State to share cost.

Okla., Davenport—May 17, by State Hy. Dpt., Oklahoma City, overhead crossing over Atchison, Topeka & Santa Fe R.R., Davenport Co. $75,000. C. L. Wilson, hy. engr.

Pa., Pittsburgh—May 10, by R. G. Woodside, controller Allegheny Co., City County Bldg., furnishing, installing safety curb guards on West End-North Side Bridge 3 over Ohio River. $23,000. V. R. Covell, County Office Bldg., engr.

R. I., Richmond—May 18, at office State Bd. P. Roads, Providence State Bridge 270, known as Miantonomi Bridge, Federal Aid Project 65-D; adv. E. N.-R. May 5.

Tennessee—See "Streets and Roads."

Vt., Pittsfield—May 13, by State Hy. Dpt., Montpelier, 2 span T-beam concrete bridge with gravel approaches over Tweed River.

CONTRACTS AWARDED

Indiana—State Hy. Comn., Indianapolis, 1 span 96 ft. steel truss bridge, Rd. 36, Cont. 475, Parke Co., to R. H. King, Danville, $11,800 est. $16,941. Noted Mar. 10.

Iowa—State Hy. Comn., Ames, 16 culverts, extensions, Rd. 168, B-794, Pottawattamie and Shelby Counties, to Wickham Bridge & Pipe Co., 1905 West Bway., Council Bluffs, $5,780—one 50 x 24 ft. I-beam bridge, one 60 x 24 ft. I-beam bridge with two 50 x 24 ft. I-beam approach spans, one 36 x 24 ft. and one 40 x 24 ft. I-beam bridges, and one 210 ft. multiple box span I-beam bridge, 52 culverts, extensions, to Forgie & Groth, Sioux Center, $20,148, to Waugh & Tackman, Clarksville, $20,886, and to J. B. Elliott, Independence, $19,708. Grand total $66,522. Noted Apr. 21.

Ia., Harlan—Shelby Co., multiple span I-beam bridge, alternate three 45 x 20 ft. spans on concrete piers, concrete floor or four 36 x 18 ft. multiple spans, creosoted floor and asphalt plank wearing surface, also 36 x 20 ft., 36 x 18 ft. and 36 x 16 ft. I-beam approach spans on creosoted piling, to G. W. Condon Co., Grain Exch. Bldg., Omaha, Neb., Items (1) $6,890 (1a) $6,460 (2) $1,600 (3) $1,700 (4) $1,225. Noted Apr. 14.

Ia., Mount Ayr—Ringgold Co., three 40 ft. span I-beam bridge, concrete substructure, concrete floors, 24 ft. I-beam bridge, creosoted pile found., 25 concrete box culverts, to Wickham Bridge & Pipe Co., 1905 West Bway., Council Bluffs, $18,200 plus 60c. per ft. for piles.

Maine—State Hy. Comn., Augusta, bridge Newcastle, involving 140 cu.yd. concrete and 90,000 lb. structural steel, to Cyr Bros. Co., Waterville, $12,793—bridge Westfield, 682 cu.yd. concrete, and bridge, Hogdon, 218 cu.yd. concrete, to Giovannucci, Pittsfield, $6,220 and $4,119 respectively—bridges Orient, 135 cu.yd. concrete, and Amity, 135 cu.yd. concrete, to W. H. Hinmann, Skowhegan, $2,786 and $2,743 respectively—bridge, Presque Island, 682 cu.yd. concrete, to E. C. Cyr, Waterville, $15,983, 461,000 lb. steel superstructure, to Pittsburgh Des Moines Steel Co., Neville Island, Pittsburgh, Pa., $20,451. Grand total $65,095. Noted Apr. 21.

Neb., Central City—State Hy. Dpt. and Bd. Supervs. Merrick and Hamilton Counties, one 840 ft. multi span deck steel girder bridge, to Diamond Eng. Co., Grand Island, $38,784; approach fills, to Western Bridge & Constr. Co., 3867 Leavenworth St., Omaha, $9,725. Noted Mar. 31.

Pennsylvania — State Hy. Dpt., Harrisburg, 110 ft. single span pony truss bridge, 32 ft. roadway, two 5 ft. sidewalks, Route 57, Osceola Mills Boro. Center and Clearfield Counties, to Baily Constr. Co., Philipsburg, $27,112. Noted Mar. 17, under "Streets and Roads."

Pa., Volant—Lawrence Co., Court House, New Castle, W. A. Eakin, clk., concrete repairing pier and abutment of Neshannock Bridge, to L. F. Vaughn, 309 East Leasure Ave., New Castle, $16,999; abutments to Mill Race Bridge, to Burns & Ferry, Old Pittsburgh Rd., New Castle, $3,637. Est. $25,000.

Texas—G. Gilchrist, state hy. engr., Austin, concrete, steel bridge over Guadalupe River, Hy. 9, Federal Aid Project 631-B, Kendall Co., to Cage Constr. Co., Taft, $93,913 est. $120,000; steel, concrete deck girder bridge over Blanco River, Hy. 3, Federal Aid Project 289, Re-opened, Uvalde Co., to L. M. Mackey, 418 Liberty Natl. Bank Bldg., Oklahoma City, Okla., $29,434 est. $40,000.

West Virginia—State Roads Comn., Charleston, to Clark & Lewis, Luray, Va., substructure Middleway Bridge 1308, Berkeley and Jefferson Counties $16,654; superstructure same bridge $10,000; substructure Yellow Springs Bridge 1294, Hampshire Co. $11,578; superstructure Reece's Mill Bridge 1298, Mineral Co. $8,556—to Roanoke Iron & Bridge Wks., Roanoke, Va., superstructure Yellow Springs Bridge 1294, Hampshire Co. $18,400, superstructure Lost City Bridge 1303 Hardy Co. $7,300, superstructure Shawnee Bridge 1291, Mercer Co. $7,000—to G. F. Hazelwood, Cumberland, Md., substructure Wardensville Bridge 1293 Hardy Co. 9,628—to Brookville Bridge Co., Brookville, O., superstructure for same bridge, $9,644—to Hagen Constr. Co., Fayetteville, Tenn., substructure Shawnee Bridge 1291 Mercer Co. $7,719—to Snider Bros. Co., Kenner, substructure Reece's Mills Bridge 1298, Mineral Co. $5,506—to Pittsburgh- DesMoines Steel Co., Neville Island, Pittsburgh, Pa., superstructure Cheat River Bridge 1297, Preston Co., $35,880 — to Vincennes Bridge Co., Vincennes, Ind., Kelley Mountain Bridge 1283 Randolph Co. $12,722—to Haynes Bros., Charleston, Main Street Bridge 1289 Roane Co. $35,798. Grand total $196,385.

STREETS AND ROADS

BIDS ASKED

Arizona—See "Contracts Awarded."

California — May 11, by State Hy. Comn., Sacramento, fuel oil surfacing 60.2 mi. earth shoulders, between San Diego and San Diego-Riverside Co. line, San Diego Co. C. H. Purcell, hy. comr.

California — May 18, by State Hy. Comn., Sacramento, fuel oil treating 24.9 mi. shoulders on road between Newport and Orange-Riverside County Line, Los Angeles and Orange Counties; 40.3 mi. and seal coal on 2.2 mi. Nonejo Grade and Calabassas, Ventura and Los Angeles Counties.

Calif., Los Angeles—May 11, by Bd. P. Wks., City Hall, grading, curbing, guttering, sewers, sidewalks, lighting conduits, curb armor, 6 in. concrete base, 6 and 8 in. concrete paving 265,321 sq.ft. and oil surfacing 225,693 sq.ft. 98th St. from Avalon Blvd. to Western Ave. To exceed $25,000. J. J. Jessup, City Hall, engr.

Calif., Los Angeles—May 16, by Bd. Supervs. Los Angeles Co., Hall of Records Bldg., grading, curbing, guttering, 4 and 6 in. bitumuls no 4 in D.R. base, paving 508,039 sq.yd. Orangewood Blvd., incl. 22,687 sq.ft. 3½ in. sidewalks, 468 lin.ft. curb armor. $138,000. G. W. Jones, Hall of Records Bldg., engr.

Calif., Los Angeles—May 18, by Bd. P. Wks., City Hall, improving Sister Elsie Dr. and Gyral Dr. Impvt. Dist., incl. 46,148 cu.yd. cut, 12,687 cu.yd. fill, 105,618 sq.ft. 6 in. concrete paving, storm drain, water system; Wetona Dr. and Mullholland Hy. Impvt. Dist., incl. 58,110 cu.yd. cut, 483 cu.yd. fill, 310,290 sq.ft. 6 in. concrete paving, water system, sanitary sewers, storm drains.

Calif., San Francisco—May 12, by State Bd. Harbor Comrs., Ferry Bldg., surfacing Pier 23, incl. 113,000 sq.ft. 1½ in. Topeka surfacing, 60 tons wearing surface and binder, 400 sq.ft. concrete sidewalks.

Colorado—May 12, by State Hy. Dpt., Denver, c/o C. D. Vail, hy. engr., gravel surfacing 7.486 mi. State Hy. 1, south of Pueblo, Pueblo Co. $90,000.

D. C., Wash.—May 18, by District Comrs., District Bldg., repairing asphaltic, bituminous and concrete pavements; adv. E. N.-R. May 5.

D. C., Wash.—May 19, by District Comrs., District Bldg., sidewalks and repairing roadways and alleys; adv. E. N.-R. May 5.

Florida—May 16, by State Road Dpt., Tallahassee, B. M. Duncan, state hy. engr., laying Ocala lime rock base and surface treating 7.54 mi. Federal Aid Project 87-A, Rd. 19, Jefferson Co.—clearing, grubbing, grading, lime rock base surface treating 2.07 mi. Project 1002, Rd. 140, Broward Co.—scarifying, reshaping portion of present base, surface treating 10.9 mi. Project 870, Rd. 143, Palm Beach Co.

Georgia—May 11, by State Hy. Bd., Atlanta, grading, concrete paving 131,923 sq.yd. Macon Dublin Rd., Federal Aid Project 470-A and B, and 112 re-opened, Laurens Co., must be completed within 90 working days—grassing slopes, shoulders 3.166 mi. Watkinsville-Athens Rd., Federal Aid Project 376-A and 253-B, Clarke and Oconee Counties, must be completed in 15 working days—4.065 mi. Carrollton-Villa Rica Rd., Federal Aid Project re-opened, Carroll Co., to be completed in 20 working days.

Ill., Chicago—May 10, by Bd. Local Impvts., City Hall, 9 x 7 x 9 in. concrete paving 7,780 sq.yd. Linder and paving Tripp Aves.

Indiana—May 19, by J. J. Brown, dir. Hy. Comn., Indianapolis, concrete, bituminous concrete, brick, asphaltic macadam or rock asphalt surfacing various counties.

Ind., Anderson — May 16, by Bd. Comrs. Madison Co., grading, culverts, concrete surfacing 1 mi. Mottweiler Rd., Monroe Twp., 20 ft. $26,000. P. Phipps, Anderson, engr.

Ia., Eldora—May 10, at office Auditor Hardin Co., grading 28.64 mi. roads, incl. 234,000 cu.yd. casting excav., 23,760 cu.yd. end haul, also furnishing 6,360 ft. 12- to 42-in. corrugated or concrete culvert pipe.

Ia., Pocahontas—May 10, at office Auditor Pocahontas Co., gravel surfacing 39 mi. secondary road, incl. 43,400 cu.yd. gravel, 259,180 units overhaul, 21,700 cu.yd. stripping.

Kansas—May 13, by State Hy. Comn., Court House, Olathe, grading, concrete widening 0.066 mi. Project K-11, Federal Aid Project 260-E, Lyon Co.—grading, culverts, concrete surfacing 1.008 mi. Project K-7, Federal Aid Project 293-F, Johnson Co.—3 span 80 ft. bridge, Project K-11, Lyon Co. W. V. Buck, Topeka, hy. engr.

Kansas—May 13, by State Hy. Comn., Court House, Olathe, grading, drainage structures, culverts, concrete paving 3.904 mi. K. 7, Federal Aid Project 293-B and 1.008 mi. same road, Sect. F, Johnson Co. W. V. Buck, Topeka, hy. engr.

Kentucky—May 25, by State Hy. Dpt., Frankfort, grading, drainage structures 4.6 mi. Wickliffe-East Cairo Rd., Ballard Co.—10.9 mi. Murray-New Concord-Tennessee State Line Rd., Calloway Co. — 6.3 mi. Brownsville-Iron Bridge-Leitchfield Rd., Edmonson Co.—8.6 mi. Mayfield-Symsonia Rd., Graves Co. — 6.1 mi. Elkton-Sharon Grove Rd., Todd Co.—6.8 mi. Sebree-Slaughters Rd., Webster Co.—surfacing 9.5 mi. Burkesville-Albany Rd., Cumberland Co. — 6.1 mi. Leitchfield-Brownsville Rd., Grayson Co.—5.8 mi. Bardstown-Louisville Rd., Nelson Co.—12.4 mi. Pikeville-Jenkins Rd., Pike Co.—11.5 mi. Russellville-Guthrie-Tennessee State Line Rd., Todd Co.—separate bids (1) grading, drainage structures 0.7 mi. approaches; rein.-con. substructure for bridge, incl. 2 abutments, 3 piers (2) steel superstructure incl. 140 ft. steel span, three 50 ft. I-beam spans, concrete floor, at Floyds Fork near Shepherdsville, Bullitt Co. —(1) grading, drainage structures 0.8 mi. approaches (2) rein.-con. substructure, incl. 2 piers, 2 abutments (3) three 100 ft. span steel superstructure over Rough River at Eveleighs Mill on Leitchfield-Hardinsburg Rd., Grayson and Breckenridge Counties. H. D. Palmore, hy. engr.

Maryland — May 10, by State Roads Comn., Baltimore, G. C. Uhl, chn., concrete shoulders 4.38 mi. Contr. A-124-611 Allegany Co.—concrete shoulders and concrete roadway 3.32 mi. Contr. AA-135-711, Anne Arundel Co.—concrete shoulder and concrete base 0.24 mi. Contr. P-220-311, Prince George's Co.—macadam resurfacing 0.94 mi. Contr. W-108-62, Washington Co.; adv. E. N.-R. May 5.

Md., Baltimore—May 11, by Bd. Awards, sheet asphalt paving 8,650 sq.yd. streets listed in Contr. 618. G. Cobb, Municipal Bldg., hys. engr.

Mich., Mason—May 13, by Ingham Co. Road Comn., shaping, drainage, 12 ft. gravel Class A. surfacing 4.562 mi. Roads 138-150. O. K. Franklin, Mason, co. engr.

Mich., Mount Clements — May 11, by Road Comn. Macomb Co., Price Bldg., 270,000 gal. road oil to be used as dust palliative on gravel roads.

Mo., St. Louis—Bd. P. Serv., City Hall, rejected bids Jan. 19, foundation piers for northwestern railroad approach to St. Louis Municipal Bridge, across Mississippi River. $127,000. Will take new bids at some future date for same; also on fabrication and erection steel. Noted Dec. 24.

Montana—May 10, by State Hy. Comn., Helena, improving roads in Broadwater, Gallatin, Jefferson, Custer, Fallon, Roosevelt, Daniels and Flathead Counties; bridges in Flathead Co. R. D. Rader, state hy. engr.

Mont., Billings—May 17, by City Council, grading, resurfacing 17,000 sq.yd. Special Impvt. Dist. 276.

Nevada—May 11, by State Hy. Dpt., Carson City, furnishing asphaltic fuel oil, applying and

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Streets and Roads (Continued)

mixing it with crushed rock or crushed gravel surfacing 9.59 mi. Churchill Co.—24.07 mi. Mineral Co.—13.72 mi. Washoe and Ormsby Counties. S. C. Durkee, state hy. engr.

N. Y., Delhi—May 26, by W. J. Howland, supt. hys., Delaware Co., Court House, grading, graveling, field or quarry stone foundation 1.94 mi. Meridale-East Meredith Rd., Project 16—3 mi. Hambletville-Masonville Rd., Part 1, Project 17, 2.86 mi. Hambletville-Masonville Rd. Part 2, Project 17—bridges on Butts' Corners-Otsego Co. Line, Project 18; adv. E. N.-R. May 5.

N. Y., Mount Vernon—May 13, by J. Donohue, city purch. agt., City Hall, paving West Front St. from 11th Ave. to New York City line. A. Hick, city engr.

N. Y., New York—May 10, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., grading, sheet asphalt on concrete paving Magenta and West 167th Sts., Harrod, Bronxwood and Starling Aves.—grading, curbing, sidewalks, crosswalks on Powell Ave., repairing sidewalks various streets.

N. Y., St. George—May 11, by J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous concrete paving Forest Hill Rd. from Rockland Ave. to point 3,250 ft. north.

N. Y., Troy—City bids early in summer, 8 in. concrete paving 2.5 mi. Oakwood Ave. C. Morris, city engr.

N. Y., Yorktown—May 23, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, grading, 1 course concrete paving 18,800 cu.yd. Bronx Parkway extension, Eastern State Parkway Connection, from near Crompond Rd. to Putnam Co. Line. J. Downer, Bronxville, ch. engr.; adv. E. N.-R. May 5.

North Carolina—May 17, by State Hy. Comn., Raleigh, grading, borrow, rock excavation, headwalls, concrete paving 18,880 sq.yd. Project 7741, Watauga Co. $35,000. L. R. Ames, Raleigh, engr.

O., Cincinnati—May 10, by Comrs. Hamilton Co., grading, draining, rein.-con. paving 7,800 sq.yd. Lick Run Rd. from Cincinnati Corp. to Boudinot Rd. $27,816. E. A. Gast, co. surv.

O., Cincinnati—May 13, by Hamilton Co., cleaning 1,400,000 sq.yd. roads, furnishing 380,000 gal. tar grade 2, and 11,000 cu.yd. sand, for improvements to 149 mi. roads, 16 ft., $69,950; grading, asphalt bound macadam repaving 17,500 sq.yd. Gaines Rd. from Giffin to Springdale Rds., $33,465. E. A. Gast, Court House, engr.

Oklahoma—May 10, by State Hy. Dpt., Oklahoma City, paving 6.5 mi. U. S. Hy. 75 from Atoka south, Atoka Co.—8 mi. U. S. Hy. 75 from Harnes Corner south, Hughes Co.—7 mi. U. S. Hy. 75 from Weleetka north, Okfuskee Co.—7 mi. U. S. Hy. 81 from Terral north, Jefferson Co.—1.5 mi. State Hy. 62 north of Lawton, Comanche Co.—grading, drainage structures 6.5 mi. U. S. Hy. 60 from Arnette west, Ellis Co.—18 mi. State Hy. 14 from Hobart & Snyder, Kiowa Co. C. L. Wilson, ch. hy. engr.

Oklahoma—May 17, by State Hy. Dpt., Oklahoma City, grading, drainage structures 10.8 mi. U. S. Hy. 62 from Duke to Hollis, 32 ft., Harmon Co., $60,000—concrete surfacing 1.4 mi. U. S. Hy. 66 at Davenport $30,000—grading, drainage structures, surfacing 2.1 mi. U. S. Hy. 66 at Wellston, $38,000, both 20 ft., Lincoln Co. C. L. Wilson, hy. engr.

Pennsylvania—May 20, by State Hy. Dpt., Harrisburg, rein.-con. and macadam surfacing 41 mi. roads in Columbia, Elk, Erie, Crawford, Jefferson, McKean, Pike and Venango Counties. S. S. Lewis, secy.; adv. E. N.-R. May 5.

Tennessee—May 20, by State Dpt. Hys. & P. Wks., Nashville, paving short section State Hy. 106 from Nashville city limits towards Franklin, S.A.P. 545-A-S, Davidson Co.—5.527 mi. Hy. 20 between Darden and Parsons, Henderson and Decatur Counties—2.231 mi. Hy. 11 between Nolensville and Davidson Co. Line, Williamson Co.—grading, drainage structures 0.671 mi. Hy. 1 through Rockwood, Roane Co.—1.302 mi. Hy. 54 between Covington and Hatchie River, Tipton Co.—bridge over French Broad River between Dandridge and Newport, Jefferson Co. R. H. Baker, hy. comr.

Tex., Marshall—May 15, by City, c/o H. J. Graeser, mgr., curbing, guttering 29,929 ft. and paving 29,384 yd. streets. $100,000. W. C. Albright, Marshall, engr.

Utah—May 11, by State Road Comn., Salt Lake City, oil processing 38.7 mi. state hy. in Davis, Morgan and Summit Counties; graveling 19,000 cu.yd. Lincoln Hy., Tooele Co. H. S. Kerr, Salt Lake City, state hy. engr.

Wash., Everett—Comrs. Snohomish Co., bids early in June, concrete paving Lowell-Larimer Rd. $39,000. R. D. Alverson, Everett, co. engr.

Wisconsin—May 13, by State Hy. Comn. and Hy. Com. Juneau, Marathon and Waushara Counties, Citizens Natl. Bank Bldg., Wisconsin Rapids, grading, concrete paving 107,889 sq.yd. Poy-Sippi-North County Line Rd., S.T. Hy. 49, S.A.P. 4648, Waushara Co. — 64,458 sq.yd. Aurorahville-East County Line Rd., S.T. Hy. 21, F.A.P. 459-B, Waushara Co — 13,704 sq.yd. North Camp Douglas Grade Separation Rd., U. S. Hys. 12 and 16, F.A.P. 325-E and West Camp Douglas Grade Separation Rd., Juneau Co.—structures only on Endeavor-Westfield Rd., Marquette Co.—constructing Brock Bridge, on S.T. Hy. 97, S.A.P. 4668 Marathon Co.

Wis., Manitowoc—Soon takes bids concrete paving 30,000 sq.yd. Meadow, Lane, Waldo and 27th Sts. $25,000. T. Stoelffler, city engr.

Wyoming—May 11 and 12, by State Hy. Comn., Cheyenne, improving 10 highway projects and 3,200,000 gal. road oil and asphalt. $400,000.

CONTRACTS AWARDED

Arizona—State Hy. Comn., Phoenix, rebuilding 8 mi. hy. from Lee's Ferry to Cameron, force account. $25,000. F. N. Grant, Cameron, dist. engr.

California—F. W. Hazelwood, dist. engr. State Hy. Comn., Redding, to Skeels & Graham, Roseville, heavy fuel oil and asphaltic road oil treating 36.4 mi. Weed-State Line Rd., Siskiyou Co. $8,567, asphaltic treating as dust palliative 40.9 mi. Nevada State Line-Milford Rd., Lassen Co. $5,539, 22.5 mi. California-Oregon State Line Rd. and Routes 28 and 73 near Alturas, Modoc Co. $7,164; to B. G. Garroll, 4396 Maryland St., San Diego, applying traffic stripes to surface of roadbed 175 mi. Kern and Inyo Counties, $1,048. Grand total $22,318. Noted Apr. 7.

California — F. W. Hazelwood, dist. engr. State Hy. Comn., Redding, and R. E. Pierce, dist. engr. State Hy. Comn., Sacramento, treating with asphaltic road oil as dust palliative 18.2 mi. road between Bucks Ranch and Quincy, Plumas Co., to Basalt Rock Co., Napa, $4,678—treating with fuel oil as dust palliative 36.3 mi. road between Stoddard and Que de Porka, Tuolumne Co., to Tiffany, McReynolds & Tiffany, 821 1st St., San Jose, $8,725—bituminous treated crushed gravel or stone surfacing 1 mi. road between Fairville and Vineburg Junction, Sonoma Co., to U. B. Leew, 1059 Carpenter St., San Leandro, $7,289. Grand total $20,689. Noted Apr. 14.

Calif., Gilroy—H. Pfister, clk. Santa Clara Co., San Jose, macadamizing 240,000 sq.ft. new avenue, near here, to A. J. Raisch, Burrell Bldg., San Jose, $20,990.

Calif., San Francisco—S. J. Hester, secy. Dpt. P. Wks., City Hall, grading 151,800 cu.yd., asphaltic macadam paving 363,700 sq.ft. 2½ in. asphaltic concrete wearing surface, 4 in. waterbound macadam paving 110,000 sq.ft. Sect. A Sunset Blvd., to Fay Impvt. Co., Phelan Bldg., $117,078. Noted Apr. 14.

Calif., San Jose—Santa Clara Co., asphaltic concrete on 6 in. waste rock base surfacing 116,600 sq.ft. San Jose-Alviso Rd. and asphaltic concrete on 5 in. waste rock base surfacing 134,200 sq.ft. Saratoga Ave., to Valley Paving & Constr. Co., P. O. Box 1349, Fresno, $17,490 and $16,280 respectively—oil macadam surfacing 141,724 sq.ft. Foothill Blvd., to W. A. Dontanville, Box 544, Salinas, $12,290. Grand total $46,060.

Calif., San Jose—H. Pfister, clk. Santa Clara Co., asphaltic concrete surfacing 233,400 sq.ft. King and Ahorn Rds., to A. J. Raisch, Burrell Bldg., San Jose, $24,449. Noted Mar. 25.

Calif., San Mateo—E. P. Foster, city clk., grading, asphaltic concrete paving Isabella Ave., Hacienda St., et al., to Union Paving Co., Call Bldg., San Francisco, $33,405.

Colo., Pueblo—City Council, c/o G. W. Clark, clk., and State Hy. Dpt., Denver, c/o J. D. Bell, div. engr., Pueblo, concrete paving Court St., from 24th to 25th Sts., 25th St., from Court St. to Grand Ave., to Driscoll Constr. Co., 220 South Main St.

Conn., Greenwich—Town, constructing town streets, notably widening Greenwich Ave., to P. Bacco, 1 Atlantic St., $90,392.

Conn., Hartford—Bd. Contr. & Supply, furnishing, placing sheet asphalt wearing surface as needed subject to periodical analysis, to Edward Balf Co., 173 State St. Est. $25,000 or more. Noted Apr. 14.

Conn., Willimantic — Common Council, sidewalks, roadwork as required, to Merrill H. Jones & Sons, 44 Union St. Est. $25,000 or more. Noted Apr. 21.

Del., Wilmington—Bd. Water Comrs., Water Dpt., 16th and French Sts., grading, surfacing roads in vicinity Edgar Hoopes, Reservoir, 5 mi. west of here, involving subgrading, and preparing for paving 6,800 lin.ft. road already graded under another contract, placing waterbound macadam base on subgrade for full length, bituminous surfacing standard mixed method of penetration method over part of this length and tar and chip surfacing over remainder, raising grade 450 ft. existing earth road, grading road leading to existing pumping station and grading adjacent area, providing waterbound macadam base and tar and chip surfacing above road, culverts, guard railing and wire fencing, to George & Lynch, Dover, $37,900.

Idaho — G. E. McKelvey, comr. P. Wks., Boise, grading, draining, placing selected material on 1.912 mi. North-South Hy., Idaho Co., to Triangle Constr. Co., Boise, $18,959. Est. $25,450. Noted Mar. 17.

Ill., Dixon—Lee Co., curbing, guttering, 9x6x9 in. concrete surfacing 26,372 sq.yd. State Aid Route 9, Sect. 3-M.F.T. and 4-M.F.T., to H. Zolter & Sons, Mendota, $48,159.

Indiana—State Hy. Comn., Indianapolis, grading, drainage structures, concrete surfacing 207,410 sq.yd. Rd. 25, Federal Aid Project 186-A and B Carroll and Cass Counties, to Grace Constr. Co., 903 1st Natl. Bank Bldg., Ft. Wayne, $236,488 est. $339,810; grading, drainage structures 12.011 mi. Rd. 50, Federal Aid Project 145-B, Lawrence Co., to Nallo L. Tean, Durham, N. C., $87,768 est. $128,835. Noted Feb. 18.

Indiana—State Hy. Comn., Indianapolis, grading, drainage structures, concrete surfacing 148,656 sq.yd. Rd. 56, Federal Aid Projects A, B and C, Jefferson and Scott Counties, to B Constr. Co., 1401 New City Trust Bldg., In apolis, $159,751. Est. $226,825. Noted 18.

Ind., Boonville—Warwick Co., E. Brac aud., concrete surfacing E. E. Day Rd. gravel surfacing Schultz Rd., to W. H. C Bloomfield, $27,966 and $9,254 respectively $31,436 and $14,145 respectively—gravel facing Lincoln Avenue Rd., to Hullet & St Boonville, $10,189 est. $16,110—gravel su ing Epworth Rd., to Coy Broschers, Boon $4,999 est. $8,923. Grand total $52,408. N Mar. 22.

Ind., Brazil—Clay Co., improving Ja Quincy Adams Rd., to Underwood & Shee $14,277 est. $20,284; Cliff Lowe Rd., to Salle & Gibbons, $13,359 est. $22,476. No Feb. 18.

Ind., Indianapolis—Bd. P. Wks., City H asphalt surfacing East 16th St., to Mead Co Co., 1027 Lemcke Bldg., $36,539. Est. $41,0

Ind., Versailles—Ripley Co., stone surfa Keester and Anderson Rds., to Newpoint St Co., Batesville, $18,691. Est. $25,000. No Mar. 31.

Iowa—State Hy. Comn., Ames, grading, dra age structures 12.448 mi. Rd. 137, Lucas Wayne Counties and 2.661 mi. Rd. 168, P-7 Shelby and Pottawattamie Counties, to G. Condon Co., Grain Exch. Bldg., Omaha, Ne $54,112 and $11,038 respectively—0.251 Rd. 17, F-109, Palo Alto Co., to S. R. Qua Ft. Dodge, $719—gravel surfacing 21.7 mi. R 12, F-210 and 20.4 mi. Rd. 5, P-39, bo Plymouth Co., to J. H. Hartsell, Early, $6,3 and $3,228 respectively. Grand total $75,4 Noted Apr. 21.

Ia., Dubuque — Dubuque Co., grading 6.9 mi. trunk roads, to J. P. Hurley, Epworth, $16,062. Noted Mar. 31.

Ia., Nevada—Story Co. grading, casting, shaping 35 mi. roads, to T. M. McGuire, Algona, $9,905, to Jones & Mitchell, Des Moines, $6,943, to P. Reiman, Lineville, $1,460. Grand total $18,308.

Kentucky—State Hy. Dpt., Frankfort, grading, drainage structures, using 1st class rein.-con. pipe 5.622 mi. Tyner-Bond Rd., Jackson Co., to E. A. Chilton, London, $31,290—4.7 mi. Eddyville-Cadiz Rd., Lyon and Trigg Counties, to R. E. Mills Co., Frankfort, $104,477—grading, drainage structures, using 1st class rein.-con. pipe, traffic bound limestone surfacing 10.406 mi. Russellville-Central City Rd., Logan Co., to J. B. Westerfield, Owensboro, $58,803—traffic bound limestone surfacing 4.699 mi. Cadiz-Eddyville Rd., Trigg Co., to D. W. Dickinson & Co., Trenton, $12,482. Grand total $207,052. Noted Apr. 7.

Kentucky—State Hy. Dpt., Frankfort, traffic bound macadam surfacing 12.046 mi. Glasgow-Bowling Green Rd., F.A.P. 210-BS, Barren Co., to Bowles & Co., St. Matthews, $39,940—grading, drainage structures, using 1st class rein.-con. pipe 3.859 mi. Tompkinsville-Edmonton Rd., S.A.P. 149-BG, Monroe Co., to E. O. Korsmo, 73 Porter Bldg., Memphis, Tenn., $33,846—3.462 mi. Franklin-Tennessee State Line Rd. F.A.P. 239-AGS, Simpson Co., to R. H. Waters, Boston, $25,464. Grand total $99,250. Noted Dec. 7.

Kentucky—State Hy. Dpt., Frankfort, to C. B. Peart, Auburn, furnishing, delivering, spreading 5,000 tons crushed limestone No. 6, on 5.785 mi. Frankiln-South Union Rd., Simpson Co., $5,100, 5,000 tons on 5.787 mi. South Union-Franklin Rd., Simpson Co., $4,500—to Berry & Kelly, 617 South 38th St., Louisville, rock asphalt on waterbound macadam surfacing 10.838 mi. Flemingsburg-Carlisle Rd., Fleming Co. $136,185; 5.84 mi. same road, S.P. 43-A.S., Nicholas Co., $78,836; grading, drainage structures, using 1st class double strength vitr. pipe 3.139 mi. same road, S.P. 43-B.G., $65,835—to International Steel & Iron Co., 1321 Edgar St., Evansville, Ind., steel superstructure for bridge over Licking River near Myers Station, $7,492, both Nicholas Co. Grand total $297,948. Noted Mar. 17.

Maine—State Hy. Comn., Augusta, bituminous macadam paving 5.91 mi. Project 92-H, Presque Island, to Boone & Drewer, Presque Isle, $152,195. This corrects report in Apr. 7 issue under "Contracts Awarded."

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, concrete shoulders 1.46 mi. hy. along Livingston Rd. from District of Columbia line to Hunts Corner, Contr. P-192-811, Prince George's Co., to Corson & Gruman, 33rd and K Sts., Wash., D. C., $14,291. Noted Oct. 1.

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, macadam paving 2.77 mi. Contr. Ho-106-32, Howard Co., to G. & L. Contg. Co., Essex, $46,399. Noted Feb. 25.

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, concrete paving 1.29 mi. Contr. C1-93-52, Carroll Co., to P. Reddington & Son, 2 East Lexington St., Baltimore, $31,221. Noted Apr. 7.

Maryland—State Roads Comn., concrete paving 2.62 mi. Contr. Ce-83-22, Cecil Co., to Development & Contg. Co., American Bldg., Baltimore, $44,272. Noted Mar. 31.

Md., Baltimore—Bd. Awards, grading, curbing, concrete paving 10,100 sq.yd. streets listed in Contr. 615, to Aiello Contg. Co., Gough and Dean Sts., $17,607. Noted Apr. 7.

Md., Baltimore—Bd. Awards, cocnrete paving 12,000 sq.yd. streets listed in Contr. 616, to Aiello Contg. Co., Gough & Dean Sts., $19,999; 9,600 sq.yd. alleys listed in Alley Contr. 147, to Arundel Contg. Co., 910 Trinity St., $13,747. Noted Apr. 14.

Streets and Roads (Continued)

Massachusetts—Dpt. P. Wks., Boston, A. W. Dean, engr., bituminous macadam paving 8,184 ft. hy., incl. 2 rein.-con. bridges, Belchertown and bituminous macadam paving 16,658 ft. hy., incl. widening, concrete bridge, Granby, to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $125,262—bituminous macadam paving 2,900 ft. hy., Waltham, to Greenough Constr. Co., 200 Calvary St., Waltham, $27,007. Noted Apr. 21.

Mass., Boston—Dpt. P. Wks., J. A. Rourke, comr., sheet asphalt paving Belden St., to A. R. Doyle, Inc., 44 Perkins St., Jamaica Plain, est. $25,000. Morton St., to Coleman Bros., Inc., 245 State St., $29,901—sheet asphalt or bitulithic paving Groveland St., to Dooley Bros., 73 Howard St., Roxbury, $22,292, est. $25,000. Noted Apr. 21.

Mass., Boston—Park Dpt., 33 Beacon St., concrete walks in Boston Common, to A. Singarella, 22A Tremlett St., Dorchester. Est. $25,000.

Mich., Muskegon—Muskegon Co. Road Comn., grading, drainage 1.3 mi. River Rd., to Dobbs Team & Trucking Co., Muskegon, $6,074; gravel surfacing above road, to W. J. Eilers, Montague, $10,264.

Minnesota—State Hy. Dpt., St. Paul, concrete paving 117,400 sq.yd. S.P. 4-47, Div. A F.A.P. 405-A, and S.P. 8-25, Div. B F.A.P 57-R and R, 117,600 sq.yd. S.P. 30-29, F.A.P. 50R and R, and S.P. 30-27, Div. A, F.A.P. 271, to Nelson, Mullen & Webster, 355 Gateway Bank Bldg., Minneapolis, $126,584 and $256,637 respectively —164,164 sq.yd. S.P. 7-39-1, Div. A, F.A.P. 367-A and S.P. 7-39-3, F.A.P. 367-B, to Western Asphalt Paving Corp, Sioux City, Ia., $197,501 —237,960 sq.yd. S.P. 8-34, F.A.P. 302 and SP. 8-52, Sect. 1 F.A.P. 278 and S.P. 30-37 Div. B. F.A.P. 271, to S. J. Groves & Sons Co., Wesley Temple Bldg., Minneapolis—247,546 sq.yd. S.P. 8-52-2, F.A.P 278, S.P. 8-42, F.A.P. 302-B and S.P. 8-39, Div. A, F.A.P 302-B, to C. Weaver, Anoka—grading, concrete paving 220,455 sq.yd. S.P. 12-32-1, F.A.P. 402 B and S.P. 12-32-2, F.A.P. 402C, to Hallet Constr. Co., Crosby, $267,097—grading 453,000 cu.yd. S.P. 7-41-2, to C. L. Aarvig, Morris, $63,595—625,000 cu.yd. S.P. 19-25, Div. A, to Barnard-Curtiss Co., 504 Globe Bldg., Minneapolis, $143,757—413,910 cu.yd. S.P. 29-24-1, to Volden Bros., Milan, $65,903—225,780 cu.yd. S.P. 37-21-4, to W. Petrie, Champlin, $36,899—37,866 cu.yd. S.P. 45-25, to Finley & Danielson, 416 Globe Bldg., St. Paul, $16,735. Noted Apr. 14.

Mo., Clayton—St. Louis Co., Court House, to C. A. Moreno Co., 1228 Syndicate Trust Bldg., St. Louis, rein.-con. paving 16,051 ft. Clayton Rd. $129,813; 2,777 ft. Old Bonhomme Rd., $16,948 — to Bangert Bros. Constr. Co., Ferguson, bituminous asphalt surfacing 2,985 ft. Music Ave. $20,960; 6,071 ft. Woods Mills Rd. $18,746; waterbound macadam paving 700 ft. West Ave., $2,290, 2,478 ft. Glendale Ave. $7,411—to Webb Boone Paving Co., 1503 Fyler Ave., St. Louis, 200 ft. Hillside Ave. $906—to Carlon Constr. Co., 3512 Greenwood Ave., Maplewood, rein.-con. paving 1,525 Hildescheim Ave., $7,111—to J. Dillon, 2358 Tennessee Ave., St. Louis, graveling 3,268 ft. Ballwin Rd. $5,484. Grand total $209,669. Noted Apr. 7.

New Jersey — State Hy. Comn., Trenton, grading, curbing, paving 2,800 sq.yd. Route 25, Connecting Link, Sect. 8b, Contr. 68, Essex Co., to Standard Bitulithic Co., 50 Church St., New York, $12,124. Noted Apr. 14.

Ohio — O. W. Merrell, dir. hys., Columbus, brick paving, except brick, 4.579 mi. Athens and Hocking Counties, to Dodge-Hussey, Inc., 1174 5th Ave., Columbus, $149,159; furnishing and delivering brick for above, to Nelsonville Brick Co., 150 East Broad St., Columbus, $47,387—0.74 mi. Perry Co., to Ebersbach Constr. Co., Pomeroy, $30,491; furnishing and delivering brick for above to Hocking Valley Brick Co., 150 East Broad St., Columbus, $8,468—grading, widening bitulithic concrete paving 2.491 mi. Cuyahoga Co., to F. W. Stollfus, 1926 Scharr Rd., Cleveland, $49,717—grading, draining, concrete widening 1.4 mi. Lorain Co., to Ohio Eng. Co., Lorain, $63,210—concrete paving 9.1319 mi. Morgan Co., to Ray Strawser, Inc., 852 North Cassady Ave., East Columbus, $251,231—5.979 mi. Washington and Morgan Counties, to L. T. Cisler, Marietta, $146,235—grading, draining, bituminous macadam widening 5.327 mi. Marion Co., to N. B. Putnam Co., Deshler Hotel, Columbus, $77,722 — grading, draining, concrete widening 4.711 mi. Medina Co., to George S. Mellert-Weidner Co., 218 South Broadway, Medina, $151,950. Grand total $975,570. Noted Apr. 7.

Oklahoma—State Hy. Dpt., Oklahoma City, grading, drainage structures 6,048 mi. State Aid Project 789-A from Beaver to Forgan, Beaver Co., to S. S. Strong, Beaver, $22,572 est. $25,000—4.139 mi. Federal Aid Project 50-R east of Ada, Pontotoc Co., to Smith & Sons, Noble, $30,308 est. $35,000—4 mi. State Aid Project 812-B at Harmon, Custer Co.; and 5.631 mi. same project Sect. C, to Kodane Constr. Co., Frederick, $11,206 and $22,163 respectively est. $25,000 each, all 32 ft. wide. Grand total, $86,249.

Pennsylvania — State Hy. Dpt., Harrisburg, grading, drainage structures, bituminous surface treated macadam surfacing 1,500 ft. Route 44, Liberty Twp., Adams Co., 18 ft., to A. Phelps & Sons, 6319 Michigan St., Detroit, Mich., $13,196. Noted Mar. 17.

Pa., Millvale — R. G. Woodside, controller Allegheny Co., grading, curbing, brick on 8 in. concrete paving 970 ft. Evergreen Ave., 36 ft. wide, to F. Kukurin, 333 Carothers Ave., Carnegie, $30,798. Noted Apr. 7.

Texas—G. Gilchrist, state hy. engr., Austin, asphalt surfacing 8.95 mi. Van Zandt Co., and 10.614 mi. Cherokee Co., to Haden & Austin, 328 Post-Dispatch Bldg., Houston, $27,198 and $30,265 respectively est. $25,000 and $30,000 respectively—crusher-run sandstone and sledged sandstone base course with crushed limestone screening 15.502 mi. Karnes Co., to Thomas & Ratliff, Rogers, $124,921 est. $140,000—triple asphalt on caliche base course surfacing 12.896 mi. Lubbock Co., to Huddleston Constr. Co., Crosbyton, $74,630 est. $90,000—single bituminous on caliche base course surface treating 15.536 mi. Randall Co., to McClung Constr. Co., 1309 Fort Worth Natl. Bank Bldg., Fort Worth, $82,695 est. $44,000—concrete paving 15.559 mi. Ellis Co., to Central Bitulithic Co., Praetorian Bldg., Dallas, $225,510—concrete paving 8.488 mi. Brazoria Co., to Gulf Bitulithic Co., P. O. Box 1862, Houston, $122,439 est. $120,000 — 16.982 mi. Hemphill Co., to Stuckey Constr. Co., Box 1445, Wichita Falls, $279,191 est. $300,000—10.311 mi. Matagorda Co., to Northwest Hy. Co., Des Moines, Ia., $148,361 est. $150,000—13.782 mi. Haskell Co., to L. E. Whitham Constr. Co., Box 1292, Wichita Falls, $200,016 est. $200,000—13.824 mi. Hy. 31, and 5,094 mi. Hy. 19, Henderson Co., to L. H. Lacy Co., 202 Burt Bldg., Dallas, $249,758 and $92,874 respectively est. $240,000 and $90,000 respectively—1.947 mi. Hy. 20, Waller Co. and grading, small drainage structures 12.689 mi. Kerr and Kendall Counties, to J. P. Foty, 411 Burt Bldg., Dallas, $40,364 and $55,943 respectively est. $40,000 and $66,000 respectively—15.911 mi. Houston Co., to J. S. Moore & Sons, Lufkin, $48,410 est. $50,000—gravel or crushed stone for base f.o.b. unloading points, 14.648 mi. Hy. 94, Trinity Co., to R. W. McKinney, Nacodoches, $31,659 est. $30,000. Grand total $1,834,214. Noted Apr. 21.

Tex., Longview—City, c/o W. Weldon, secy., 6 in. rein.-con. paving 13,000 sq.yd. East Tyler Ave., South Green, North 2nd and North 6th Sts., to F. P. McElwrath Constr. Co., Box 727, Corsicana, at $2.07 per sq.yd. Est. $30,000. Noted Apr. 20 Daily.

Tex., San Antonio—Concrete asphalt paving Hackberry St. to McKinley St., Chicago Blvd. and Kellar St. from South Flores to Stark Sts., to Alamo Paving Co., Dawson St., $27,528.

Utah—State Rd. Comn., Salt Lake City, oil processing 39.6 mi. Arrowhead Trail, Juab, Millard and Beaver Counties, to Granite Constr. Co., Watsonville, Calif., $79,908. Est. $104,696. Noted Apr. 19.

Vermont—State Hy. Dpt., State House, Montpelier, concrete paving 5.3 mi. hy. Woodstock, Hartland and Hartford, to B. Perini & Sons, Inc., Framingham, $150,142. Noted Apr. 14.

Va., Richmond—R. K. Compton, dir. P. Wks., City Hall, curbing, guttering, grading, gravel surfacing 8 streets in West End, to City Building Corp., Builders Exch. Bldg., $13,295. City will pay $8,858 toward cost.

Wash., Chehalis—Lewis Co., constructing 3.3 mi. Henry McAlney Rd. and 1.08 mi. Bear Canyon-Morton Rd., to Hendricks & Co., Chehalis, $14,329 and $21,189 respectively. Est. $55,000. Noted Apr. 7.

Wash., Davenport — Lincoln Co., grading Lateral Highway 7, to Colonial Building Co., Hutton Bldg., Spokane, metal pipe culverts, $14,444; surfacing same road, to Kinder & Welch, Wilbur, $6,512. Noted Apr. 7.

Wash., Tacoma—Pierce Co., concrete paving Puyallup-Lakeview Rd., to Paine Galluci, Inc., 1521 South Grant St., Tacoma, $31,869.

West Virginia—State Roads Comn., Charleston, grading, drainage structures 1.23 mi. Project 3475, Barbour Co., to Ferguson Bros., Shinnston, $23,087—1.54 mi. Projects 3526 and 3527, Berkeley and Jefferson Counties, to G. N. and O. J. Yoho, Cameron, $45,071—5 mi. Project 3518, Tucker Co., and concrete surfacing 1.6 mi. Project 155-D, Marion Co., to R. W. Femple, Fairmont, $122,905 and $39,771 respectively—3.45 mi. Project 182-A and B, Pleasants and Wood Counties, and grading, drainage structures, using pure iron pipe 7 mi. Project 182-E Wood Co., to Keeley Constr. Co., Clarksburg, $50,259 and $126,528 respectively—widening, concrete surfacing 0.2 mi. Project 2114-D, Brooke Co., to A. V. Williams, Martins Ferry, O., $4,658—grading, shale surfacing 5.27 mi. Project 3441 Gilmer Co., to R. Giavina, Cleveland, $112,500—concrete surfacing 8.5 mi. Project 22-A and 181-A and B, Hancock Co., to H. M. Bates, Steubenville, O., $124,972—grading, concrete surfacing 3.5 mi. Project 153-B, Logan Co., and concrete surfacing 6.97 mi. Projects 42 and 173-A, Raleigh and Fayette Counties, to Hatfield Constr. Co., Huntington, $98,182 nad $155,558 respectively—shale surfacing 5.7 mi. Project 3479, Taylor Co., to Bartlett Constr. Co., Clarksburg, $7,986. Grand total $911,777. Noted Apr. 21.

Wisconsin—State Hy. Comn., Batavian Natl. Bank, LaCrosse, furnishing, applying bituminous material 8,800 cu.yd. Bluff Siding-Fountain City-Cochrane Rd., A.F.E. 6-03 and 6-04, S.T. Hy. 35, Buffalo Co.—crushed stone surfacing 2,400 cu.yd. Sparta-Black River Falls Rd., A.F.E. 41-03 State Trunk Hy., 27, Monroe Co.—13,000 cu.yd. Westby-Sparta Rd. A.F.E. 41-04 and Cashton-Middle Ridge Rd., A.F.E. 41-06 Monroe Co.—furnishing 108,000 gal. tar type F, 222,000 gal. asphalt type E, grade 2, 78,000 gal. asphalt type C 50-60, 1,100,000 gal. type C 50-60 and 70-80—applying 300,000 gal. bituminous material in Buffalo Co.—154,000 gal. asphalt type C, Jackson Co.—298,000 gal. bituminous material Monroe Co.

Wisconsin — Dane Co. Hy. Com., Madison, gravel surfacing 10.2 mi. road and 18.5 mi. road, to Rein & Dahl, Stoughton, $2,968 and $5,295 respectively—13 mi. road, to G. Kivlin, Madison, $4,635—13.25 mi. road, to E. F. Gallagher, Oregon, $2,243. Grand total $15,141. Noted Apr. 7.

Manitoba — Provincial Govt., Parliament Bldgs., Winnipeg, grading 10 mi. Clear Lake Rd., from Provincial Trunk Hy. 4, to Erickson, and grading 3 mi. Piney Hy. in Richot and Tache Municipalities, to Middle West Constr. Co., 403 Trust & Loan Bldg., Winnipeg, $18,892 and $6,508 respectively — constructing 10 treated timber culverts and completing 2 timber bridges on Clear Lake Rd., to A. E. Dupont, $1,531—grading 5.8 mi. Piney Hy., Hanover Municipality, to Foley Bros. Ltd., 715 McIntyre Bldg., Winnipeg, $10,603—constructing 93 ft. treated timber bridge on Piney Hy. between Ritchot and Tache Municipalities, to La Cour & Schioler, 201 Curry Bldg., Winnipeg, $1,286. Grand total $38,820.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

N. J., Forked River—Dpt. Commerce & Navigation, Trenton, constructing basin, incl. dredging, bulkheading. $100,000. V. Gelineau, Trenton, engr.

BIDS ASKED

Calif., Indio — May 14, by Trustees of Coachella Valley Storm Water Dist., 136,000 cu.yd. excav., 300 ft. wire netting, 2 in. pipe channel protection work in connection with flood control channel near Point Happy, Riverside Co.

Calif., Los Angeles—Bd. Supervs. Los Angeles Co. taking bids 86,000 cu.yd. channel excav.; constructing levees in Ballona Creek from Roosevelt Hy. westerly.

Mass., Weymouth—May 5, by Town, Bd. Selectmen, completing sea wall, Fore River Ave., North Weymouth. $25,000. Town Engineer, 75 Middle St., engr. Noted Apr. 7.

CONTRACTS AWARDED

La., New Orleans — Sewerage & Water Bd., lined and covered canal and open canal in Orleans Relief Canal at Pumping Station 7. Contr. 212-D, to A. P. Boh & Co., 837 Perdidi St., $16,110. Noted Feb. 18.

Mass., Cambridge—Harvard University, A. L. Lowell, pres., grading for Fogg Art Museum, College Grounds, to J. F. White Contg. Co., 56 Ellery St., Cambridge. Est. $25,000 or more. Noted Apr. 14, under "Schools, Contracts Awarded."

Mass., Marblehead—Town, Clerk, rip rap, etc., for reconstructing seawall, Fort Sewell, to J. Cudihy, Marblehead, at $17.50 per cu.yd.

N. S., Yarmouth—May 10, by N. Desjardins, secy. Dpt. P. Wks., Ottawa, dredging Area "A," incl. 63,689 cu.yd. hard packed materials, believed to consist of sand, clay, gravel and boulders, Area "B," 37,600 cu.yd. clay, sand and silt, Yarmouth, $125,000; also 8,000 cu.yd. sand, shells, gravel, boulders, logs, removing old bridges or boom piers in channel, Scoudouc River, N. B., $10,000.

Bond Elections

Coming Bond Elections

Waterworks and Sewers—Willcox, Ariz., May 23, $72,000.
Waterworks—Kenner, La., East Jefferson Water Works Dist. 1, May 31, $500,000.
Roads—Gonzales County, Tex., Precinct 1, May 26, S. C. McCarty, div. engr., Gonzales. $350,000.
High School—North Sacramento, Calif., Grand Union High School Dist. $150,000.

Bonds Voted

Sanitary Sewers and Site for Disposal Plant — Tarentum, Pa. C. E. Miller, 5147 Jenkins Arcade, Pittsburgh, engr. $75,000.
Roads — Wright County, Iowa (Clarion), $1,400,000.
Roads — Ochiltree County, Tex., Perryton, $400,000.

Bonds Defeated

Waterworks—Springer, N. Mex., $60,000.
Force Line, 20,000 lin.ft., 3 in. from filtration plant—Watertown, S. D. $90,000.
Schools—Dunmore, Pa., $40,000.

FEDERAL GOVERNMENT

PROPOSED WORK

Calif., Alameda—RAILROAD TRACK—Con. Q. M., Benton Field Air Deport, 33 Pacific Ave., soon takes bids furnishing, laying 4,000 lin.ft. railroad track, at Benton Field.

Conn., Stamford—DREDGING—U. S. Eng., Providence, R. I., 135,000 cu.yd. Stamford Harbor.

Florida—DREDGING—U. S. Eng., Jacksonville, 916,596 cu.yd. from relocation channel in Intracoastal Waterway from Jacksonville to Miami, near Ponce de Leon Inlet, and 32,052 cu.yd. from Haulover Canal, part of Intracoastal Waterway at Allenhurst.

Fla., Jacksonville — SHORE PIPE — U. S. Eng., P. O. Box 45, rejected bids Apr. 8, shore pipe.

Federal Government (Continued)

Ill., Rock Island—LOCK OPERATING MACHINERY—U. S. Eng., lock operating machinery, power house machinery, electric power and control system, for dam at lock and Dam 15, on Mississippi River.

Md., Baltimore—DREDGING—U. S. Eng., Baltimore, 1,572,000 cu.yd. Cutoff Sect. of Channel to Baltimore Harbor.

Mich., Detroit—DREDGING—U. S. Eng., 1,376,000 cu.yd. from Courses 2 and 3, Little Rapids Channel, St. Mary's River.

Minn., St. Paul—CRANE—U. S. Eng., 615 Commerce Bldg., bids in May electric crane for Government Lock and dam at Hastings.

N. J., South River—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., 2 story, basement, brick, steel U. S. Post Office. $150,000. **Maturity indefinite.** J. A. Wetmore, Wash., D. C., acting superv. archt.

N. C., Fairfield—BRIDGE—U. S. Eng., Wash., D. C., bridge across Inland Waterway, Hyde Co., near here. $90,000. Authorized by Secretary of War.

N. Y., Mineola—GYMNASIUM—Con. Q. M., Mitchell Field, rejected bids Apr. 18, gymnasium, at Mitchell Field. Will readvertise. Noted Mar. 31.

N. Y., Rochester—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans completed U. S. Post Office. $1,700,000.

North Carolina and South Carolina—DREDGING—U. S. Eng., Charleston, S. C., 2,879,906 cu.yd. from north end Little River to Winyah Bay portion of Intracoastal Waterway from Cape Fear River, N. C., to Winyah Bay, S. C.

Pa., Phila.—DREDGING—U. S. Eng., Phila., Pa., 330,000 cu.yd. material in channel of Schuylkill River between Yankee Point and Passyunk Ave.

Tex., Camp Normoyle—IRON and BRIDGE ROLLS—Con. Q. M. soon takes bids 826 sheets galvanized corrugated iron, 220 ft. galvanized ridge rolls, 520 carriage bolts, 3,160 ft. yellow pine timber.

BIDS ASKED

Ark., Hot Springs—PUMP—May 24, by Con. Q.M. Army and Navy General Hospital, horizontal centrifugal pump with starter and control equipment at Army and Navy General Hospital; adv. E. N.-R. May 5.

Ariz., Ganado — DAM — See "Contracts Awarded."

Calif., Alameda—EXTENDING, etc.—June 1, by Treas. Dpt. at office Sup. Archt., Wash., D. C., extending and remodeling (except elevator) U. S. Post Office. $75,000; adv. E. N.-R. May 5.

Calif., El Centro—POST OFFICE—June 1, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $140,000. Noted Feb. 11.

D. C., Wash.—ELEVATOR PLANT—May 23, by Treas. Dpt. at office Sup. Archt., Wash., D. C., installing complete elevator plant.

D. C., Wash.—HOSPITAL—May 31, by Interior Dpt., 1 male receiving building, removing, relocating, remodeling shops, removing tubercular buildings 1, 2, 3, incl. roads, retaining walls, walks, grading and drainage, at St. Elizabeth's Hospital. $1,050,000.

D. C., Wash.—WAREHOUSE, etc.—May 24, by Con. Q. M. Bolling Field, air corps warehouse, constructing quartermasters building, maintenance warehouse and fire and guard house at Bolling Field; adv. E. N.-R. May 5.

Fla., Jacksonville—JETTIES—June 2, by U. S. Eng., repairing north and south jetties at entrance St. John's River; adv. E. N.-R. May 5.

Ill., Lawrenceville—POST OFFICE—May 25, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $100,000. Noted May 14.

Ill., Rock Island—STORAGE HOUSE, etc.—May 18, by U. S. Eng., Rock Island, 1 story, rein.-con. storage house, grading approach ramp, steps, electrical fittings; adv. E. N.-R. May 5.

Ia., Herrold — INFIRMARY — May 12, by U. S. Property & Disbursing Officer, Militia Bureau, infirmary building for Camp Dodge.

Mississippi, Arkansas and Louisiana—EARTHWORK—May 17, by U. S. Eng., Vicksburg, Miss., 1,684,500 cu.yd. earthwork, in Carolina to Valewood New Levee and enlargement, east bank Mississippi River, Miss.; 1,985,000 cu.yd. below Grand Lake Levee and enlargement, west bank Mississippi River, Ark.; 3,669,000 cu.yd. Hagaman to Atherton New Levee and enlargement, west bank Mississippi River, La.; 1,506,000 cu.yd. Atherton to Goodrich New Levee and enlargement, 8 mi. south Lake Providence, La.; 3,140,000 cu.yd. Mascot to Millikens Bend New Levee and enlargement, 10 mi. northeast of Tallulah, La.; 2,750,000 cu.yd. Millikens Bend to Duckport New Levee and enlargement, 6 mi. north Mounds, La.; 744,000 cu.yd. below Duckport New Levee and enlargement, 2 mi. above Delta, La.; adv. E. N.-R. May 5.

Mo., Jefferson City—POST OFFICE—May 26, by Treas. Dpt., at office Sup. Archt., Wash., D. C., constructing (except elevators and lighting fixtures), U. S. Post Office, Court House; adv. E. N.-R. May 5.

Nev., Boulder City—DORMITORY—May 12, by Bureau Reclamation, Denver, Colo., 2 story, basement, 42 x 88 ft. dormitory. R. F. Camp, Denver, Colo., ch. engr.

N. J., Lakehurst—AUTOMATIC REFRIGERATING PLANT, etc.—May 11, by Yards & Docks, Navy Dpt., Wash., D. C., 1 story, basement, automatic refrigerating plant, storage refrigerators, refrigerated drinking fountains, at Naval Air Station. $40,000.

N. J., Paterson—ELEVATORS—May 23, by Treas. Dpt. at office Sup. Archt., Wash., D. C., installing 2 freight elevators.

N. Y., Mineola—WALKS, etc.—May 17, by Con. Q. M., Mitchell Field, concrete walks for field and company officers' quarters.

N. Y., Port Chester—DREDGING—May 23, by U. S. Eng., 710 Army Bldg., New York, 675 cu.yd. ledge rock and 19,775 cu.yd. other than ledge rock in Port Chester Harbor; adv. E. N.-R. May 5.

N. Y., Schenectady—RAILROAD TIES—May 17, by Con. Q.M. 2,500 railroad ties.

N. D., Carrington—POST OFFICE—May 24, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $90,000.

O., Cleveland—BOATHOUSE—May 17, by U. S. Eng., Buffalo, N. Y., 47 x 19 ft. boathouse, 7 ft. 3 in. high.

O., Fairport—DREDGING—June 2, by U. S. Eng., Buffalo, N. Y., 607,250 cu.yd. other than ledge rock from outer harbor, Fairport Harbor; adv. E. N.-R. May 5.

Pa., Norristown—POST OFFICE, etc.—May 19, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office and freight elevator.

R. I., Newport—ROADS—May 18, by P. Wks. Officer, Administration Bldg., replacing bituminous macadam roads with concrete, constructing sidewalks, patching other roads.

Tenn., Chattanooga — POST OFFICE — May 13, by Treas. Dpt. at office Sup. Archt., Wash., D. C., supplemental bids (from original bidders), U. S. Post Office. Noted Mar. 10.

Tenn., Memphis — WINCHES — May 9, by U. S. Eng., 14 first class winches complete.

Texas and Arkansas—LIGHTING FACILITIES May 19 (extended date), by Div. Purchase & Sales, Dpt. Commerce, Wash., D. C., installing lighting facilities on Dallas-Little Rock Sect. of Dallas-Louisville Airway, Proposal 24230. Noted Apr. 14.

Tex., Del Rio—HEATING BOILERS—May 16, by Treas. Dpt. at office Sup. Archt., Wash., D. C., new heating boilers.

Va., Langley Field — GYMNASIUM and THEATRE—May 24, by Con. Q. M., Langley Field, gymnasium and theatre. $85,000 appropriated; adv. E. N.-R. May 5.

Va., Richmond—GALVANIZED FITTINGS—May 10, by Treas. Dpt. at office Sup. Archt., Wash., D. C., replacing galvanized fittings on old hot water piping.

Wash., Puget Sound — REFRIGERATING UNIT—Spec. 6697—May 11, by Yards & Docks, Navy Dpt., Wash., D. C., removing existing refrigeration and ice making equipment and installing automatic refrigeration unit. Noted Apr. 14.

Wash., Seattle—NURSES HOME—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about June 1, brick, terra cotta, at U. S. Marine Hospital, Beacon Hill. $150,000. J. Graham, Dexter Horton Bldg., archt. Noted Mar. 24.

CONTRACTS AWARDED

Ariz., Douglas—INSPECTION STATION—Treas. Dpt. at office Sup. Archt., Wash., D. C., inspection shed, to R. E. McKee, 1916 Texas St., El Paso, Tex., $48,500. Noted Mar. 24.

Ariz., Ganado — DAM, etc. — U. S. Indian Service, diversion dam and syphon on Indian Irrigation Project, day labor. $25,000 appropriated by Congress for work. Work started.

Conn., New Haven—DREDGING—U. S. Eng., Custom House, Providence, R. I., 100,000 cu.yd. from New Haven Harbor, to Arundle Corp., Pratt St., Baltimore, Md., $16,695. Noted Mar. 31.

Fla., Fort Myers — POST OFFICE, etc. — Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office and Courthouse to Rosen & Fischell, 11 South LaSalle St., Chicago, Ill., $208,250. Noted Mar. 24.

Fla., Miami — QUARANTINE STATION — Treas. Dpt. at office Sup. Archt., Wash., D. C., quarantine station, to Prescott-White Corp., 121 East 27th St., New York, $57,711. Noted Apr. 7.

Ill., Chicago—CUSTOM HOUSE—Treas. Dpt. at office Sup. Archt., Wash., D. C., excavations and foundations for U. S. Post Appraisers Stores Building, to B.-W. Constr. Co., 720 North Walnut St., $74,800. Noted Apr. 7.

Ind., Terre Haute — POST OFFICE, etc. — Treas. Dpt. at office Sup. Archt., Wash., D. C., post office and court house, to National Constr. Co., 631 Tower Bldg., Wash., D. C., $439,000. Noted Mar 17.

Ind., Winchester — POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to C. Westberg Constr. Co., 6234 South Oakley Ave., Chicago, Ill., $48,487. Noted Mar 24.

Kan., Fort Riley—CEMENT—Con. Q. M., 451,200 lb. portland cement, to Consolidated Cement Corp., Fredonia, at 87c. per bbl. f.o.b. Fredonia, less 10c. per bbl. 15 days discount.

Ky., Louisville—PASSENGER ELEVATOR—Treas. Dpt. at office Sup. Archt., Wash., D. C., passenger elevator at U. S. Marine Hospital, to Otis Elevator Co., 810 18th St. N. W., Wash., D. C., $5,700. Noted Mar. 24.

Ky., Louisville—HOSPITAL—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Marine Hospital, to Hanson Bros., 127 North Dearborn St., Chicago, Ill., $274,836. Noted Mar. 17.

La., New Orleans—HOSPITAL—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Marine Hospital, to R. P. Farnsworth, Maritime Bldg., $90,495. Noted Mar. 17.

Me., Portland—CLUSTER PILES—Dpt. Commerce, Lighthouse Serv., driving 24 cluster piles at Lighthouse Depot, to L. A. Towsend, 10 Craggemere Ave., South Portland, $1,080.

Me., Togus—HOSPITAL—Vet. Bu., Arlington Bldg., Wash., D. C., heating, plumbing, electrical work for U. S. Veterans Hospital, to D. C. Eng. Co., 1400 Spring Rd. N. W., Wash., D. C., $98,500. Noted Mar. 17.

Mich., Detroit—HOSPITAL—Treas. Dpt. at office Sup. Archt., Wash., D. C., wing for U. S. Marine Hospital, to O. Misch Co., 159 East Columbia St., $395,500. Noted Mar. 17.

Mississippi and Arkansas—EARTHWORK—U. S. Eng., P. O. Box 667, Vicksburg, Miss., to McWilliams Dredging Co., 1115 Canal Bank Bldg., New Orleans, La., 950,000 cu.yd. earthwork on Valewood-Mayersville Levee, $127,300; 266,000 cu.yd. same levee to Council & Long and J. T. Polland, Greenville, Miss, $46,284; to R. T. Clark Co., Inc., Delta Constr. Co., J. W. Noble and M. T. Morrissey, Natchez, Miss., 810,000 cu.yd. same levee, $124,852, 797,600 cu.yd. same levee, $114,854, 997,000 cu.yd. same levee, $136,863, 334,500 cu.yd. same levee, $54,858, 960,500 cu.yd. Princeton New Levee and enlargement, $158,194, to Forcum Jones Co., Dyersburg, Tenn., 466,500 cu.yd. same levee, $76,040, all foregoing on Mississippi River. Grand total, $839,225. Noted Mar. 31.

Miss., Winona—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Rosen & Fischel, Inc., 11 South LaSalle St., Chicago, Ill., $50,000 (360 days). Noted Dec. 17.

Nev., Boulder City—SCHOOL—Bureau Reclamation, Denver, Colo., 1 story, 57 x 180 ft. school, to I. M. Bay, Junction, Utah, $12,441. Est. $40,000. Noted Mar. 31.

N. H., Portsmouth — CONDENSER, etc. — Yards & Docks, Navy Dpt., Wash., D. C., condenser, pump and air ejector, to Foster-Wheeler Corp., 165 Bway., New York, $4,025. Noted Apr. 7.

New Jersey and Delaware — SEXTANT TOWERS—U. S. Eng., Gimble Bldg., Phila., Pa., 9 steel sexant towers along New Jersey and Delaware shores of Delaware River and Bay, to East Coast Steeple-Jack Co., 1920 Wallace St., Phila., Pa., $1,930. Noted Mar. 13, Daily.

N. Y., Fort Slocum—PAVING—Con. Q.M., constructing and completing paving at Barracks 2, to P. Ginese, 36 North 5th Ave., Mount Vernon, $2,250. Noted Apr. 7.

N. Y., Nyack—POST OFFICE—Treas. Dpt. at office Superv. Archt., Wash., D. C., 1 story, basement, 85 x 100 ft., brick, stone, steel to C. Anderson c/o Hercules Constr. Co., 21 East 40th St., New York, $92,900. Noted Mar. 24.

N. Y., New York—POWER PLANT, etc.—Commissioner Immigration, Ellis Island, converting power plant for use of fuel oil Ellis Island, to R. H. Baker Co., 405 Lexington Ave., $24,900; replacement to leaders, drains, sewers on Island 2, Ellis Island, to Quintine Realty Co., 200 West 34th St., $5,390.

O., Cincinnati—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., excavations, pile founds. for post office, to MacArthur Concrete Pile Foundation Co., 19 West 44th St., New York, $131,547. Noted Mar. 24.

Pa., Coatesville—POST OFFICE—Treas. Dpt., at office Sup. Archt., Wash., D. C., U. S. Post Office, incl. approaches, to S. Plato, Medina, N. Y., $78,800 (390 days). Noted Mar. 31.

Pa., Lewisburg—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Hanson Bros., 127 North Dearborn St., Chicago, Ill., $165,747. Noted Mar. 24.

Pa., Rostraver—POWER PLANT—U. S. Eng., Keenan Bldg., Pittsburgh, 2 transmission, units, turbine controls, control valves, 2 accumulators, 1 automatic by-pass, boat shipment f.o.b. New Lock 4, to Monessen Fdry. & Mchy. Co., Monessen, $6,915. Noted Mar. 24.

Tenn., Knoxville—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to A. W. Kutsche Co., 2111 Woodward Ave., Detroit, Mich., pink Tennesee marble, $932,950 or white marble $863,500. Noted Mar. 31.

Vt., Beecher Falls—INSPECTION STATION—Treas. Dpt. at office Sup. Archt., Wash., D. C., 2 story, basement inspection station, to A. Durso, 78 Washington Ave., Haverhill, Mass., $38,058 (360 days).

Va., Hampton Roads—DREDGING—Yards & Docks, Navy Dpt., Wash., D. C., 500,000 cu.yd. at Naval Base to Arundel Corp., Pratt St., Baltimore, Md. Est. $120,000. Noted Mar. 31 Daily.

Va., Lynchburg—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., supplemental bids U. S. Post Office and Court House, to Largura Constr. Co., 3672 Adams St., Gary, Ind., $338,300, (480 days).

SUBWAYS AND TUNNELS

CONTRACTS AWARDED

N. Y., New York—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., installing tracks, contact rail and other work for part Rapid Transit R.R., 207ht St. Yard, to Faircroft Eng. Co., 16 Court St., $36,897. Noted Apr. 7.

GRADE CROSSINGS

BIDS ASKED

N. Y., Valley Stream — See "Contracts Awarded."

CONTRACTS AWARDED

N. Y., Elmira—Delaware, Lackawanna & Western R.R. Co., G. J. Ray, ch. engr., Hoboken, grading, masonry, etc., for eliminating grade crossings at Lake, Dickinson, East Washington Sts., also at East Ave., Oak, Clinton, John and Sullivan Sts., to Walsh Contg. Co., Herald Bldg., Syracuse, $398,763; necessary buildings, appurtenances, to J. Cunningham, 101 South Ave., Elmira, $37,950. Noted Apr. 7.

N. Y., Valley Stream—Long Island R.R. Co., A. C. Watson, ch. engr., Penn. Sta., New York, eliminating grade crossing by elevating Merrick Rd., Franklin, Rockaway and Scranton Aves., day labor. $936,878. Owner will soon sublet major portion work incl. bids about May 2, 1,400 tons structural steel. Noted Apr. 14, under "New York."

DAMS

CONTRACTS AWARDED

Wash., Bellingham—Whatcom Co., replacing 1,200 ft. wing dam in Nooksack River, Pioneer Park, Ferndale, and rebuilding 0.5 mi. Ferndale-Marietta Rd. washed out in recent floods, to C. B. Croy, 2222 Williams St., $24,535. Est. $25,000. Noted Apr. 14.

PIERS AND WHARVES

CONTRACTS AWARDED

R. I., Providence—State, Harbor Comn., pier and shed at State Pier 1, to Central Eng. Constr. Co., 210 Main St., Pawtucket. Est. $25,000 or more.

AIRPORTS

PROPOSED WORK

N. Y., Mineola — Roosevelt Field, Inc., Garden City, replacing hangar buildings, destroyed by fire. To exceed $50,000. **Maturity indefinite.**

R. I., Providence—State Airport Comn., R. T. Bodwell, chn., Cranston, administration building, lighting equipment at Rhode Island Airport. $25,000 or more. Architect not appointed.

BIDS ASKED

Conn., East Hartford — United Airports of Connecticut Inc., B. Whalen, mgr., taking bids boundary lighting, grading, planting, drainage system, and general improvements to 100 acre plot extension to Rentschler Field. Private plans.

GRAIN ELEVATORS

BIDS ASKED

N. Y., Oswego—G. C. Leitch of Toronto Elevator Constr. Co., 200 Bay St., Toronto, Ont., takes bids until May 15, 2,000,000 bu. elevator, on Grampus Bay site.

POWER AND LIGHTING

PROPOSED WORK

N. Y., Skaneateles—Empire Gas & Electric Corp., Geneva, electric transmission lines, Onondaga Co. To exceed $25,000. Pub. Serv. Comn. will soon hear application of company for permission to construct same.

N. Y., Wellsville—See "Industrial Buildings."

N. Y., Woodridge—New York State Electric Co., 123 South Cayuga St., Ithaca, electric distribution project. To exceed $25,000. Pub. Serv. Comn. granted permit.

N. C., Bryson City — Nantahala Power Co., J. A. Alexander, supt., surveys 6 mi. power line from Rhymer's Ferry across Great Smoky Mountains to Fontana Copper Mines which will be electrified, all aluminum cable will be used instead of wire, 60,000 volt capacity. J. Tompkins in charge of construction.

Alaska—Telephone Bond & Share Co., J. G. Crane, pres., 101 West 11th St., Kansas City, Mo., surveys extending telephone system. To exceed $1,000,000.

CONTRACTS AWARDED

New York — Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, furnishing, installing station and tunnel lighting equipment, Church St., Manhattan, to Jay and 3rd Sts., Brooklyn, to Jandous Electric Equipment Co., 210 East 40th St., New York, $112,000. Noted Mar. 24.

Virginia and West Virginia — Northern Virginia Power Co., Winchester, Va., D. E. Stultz, mgr., new 33,000 volt transmission line from Martinsburg, W. Va., to Winchester, Va. $135,000. Owner builds.

PARKS AND SPORTS

PROPOSED WORK

Conn., Windham — Town, J. Harvey, chn. building com., Walnut St., Willimantic, plans by A. R. Sharpe, 144 Chestnut St., Willimantic, 1 story, concrete, brick field house at Guild Memorial Athletic Field. $25,000.

Mass., Lawrence—Ross Hardy & Moore, 9 Hampshire St., preliminary plans outdoor arena. $25,000 or more. J. F. Alter, 31 Marblehead St., North Andover, engr.

N. Y., Pelham—Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, recreation center, incl. baseball and basket ball courts, showers, lockers, and altering building on site into field house. To exceed $25,000. G. D. Clark, c/o owner, archt.

N. Y., South Nyack — Nyack Development Corp., c/o B. F. McGuire, archt., 706 Linden Ave., Teaneck, N. J., revised sketches 2 story, basement casino; 6 story, basement hotel, 1 story, basement garage, River Rd. $1,000,000. **Maturity in 1933.**

CONTRACTS AWARDED

Ind., Indianapolis—Bd. Agriculture, general contract Indiana University Building, at State Fairgrounds, to Elliot-Myers Constr. Co., 508 Fidelity Trust Bldg., $23,771; heating, to Strong Bros., 309 North Alabama St., $4,481; electrical work, to Hatfield Electric Co., 102 South Meridian St., $2,100; to Irwin Co., Grand Rapids, $1,771; stage, to Conrad & Ware, Indianapolis, $700. Grand total $32,823. Noted Mar. 31, under "Buildings—Unclassified."

Mass., Belmont—Town, Park & Playground Com., L. S. Harris, 1 story, brick, concrete field house, Concord Ave. Playground, to Arlington Constr. Co., 691 Mass. Ave., Arlington. Est. $25,000-$30,000. Noted Mar. 31.

HEATING AND VENTILATING

BIDS ASKED

N. Y., Kings Park—June 1, by Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, heating work, sanitary work, and equipment, kitchen equipment, kitchen and dining room building and additions and alterations to existing Reception Building 2, Kings Park State Hospital; adv. E. N.-R. May 5.

CONTRACTS AWARDED

Ariz., Phoenix—D. B. Heard Investment Co., air conditioning and cooling plant in Heard Building, to Gay Eng. Co., 2650 Santa Fe St., Los Angeles, Calif., $40,000.

Mass., Brookline — Harvard Congregational Church, A. G. Leavitt, pastor, 35 Vernon St., heating in church and parish house, to Barber Co., 26 Warrenton St., Boston; plumbing, to Cox & Johnson, 257 Bway., Boston. Est. $25,000. Noted Apr. 14, under "Commercial Buildings."

Mass., Sharon—L. Duvlinsky, heating in hotel, Lake Massapoag, to F. E. Cassidy, Inc., 68 Bway., Cambridge; plumbing, to Lappin Bros. Co., 8 Unioin St., Malden; electrical work, to J. & M. Brown Electric Co., 737 Centre St., Jamaica Plain. Total est. $25,000 or more. Noted Mar. 31, under "Commercial Buildings."

Mass., Chelsea—Commonwealth of Massachusetts, Administration Comn., heating in nurses home and service building at Soldiers Home, to H. E. Whitten Co., 9 Federal St., Boston. Est. $25,000. Noted Mar. 17, under "Commercial Buildings."

N. J., Perth Amboy—Ballinger & Co., archts. and engrs., 122 Chestnut St., Phila., Pa., heating, plumbing work for warehouse, Fayette St., to Burns, Lane & Richardson, 301 Burnett St., New Brunswick, for Greenspan Bros., 226 Washington St. Est. $25,000. Architect now taking bids on sprinkler system. Noted Mar. 24, under "Industrial Buildings."

N. Y., Creedmoor — Dpt. Mental Hygiene, State Office Bldg., Albany, heating and power plant equipment at Brooklyn State Hospital, to A. D. Granger Co., 15 Park Row, New York, $64,888.

N. Y., Mount Vernon—Bd. Educ., 60 South 3rd St., heating for George Washington High School, to Gillis & Geoghegan, 537 West Bway., New York. $75,000. Noted Nov. 26, under "Schools, Contracts Awarded."

R. I., Providence—St. Charles Boromo Roman Catholic Church, and W. F. Fontaine, archt., 285 Main St., Woonsocket, heating in parochial school, to Taylor Heating Co., 714 Broad St.; plumbing, to J. F. Martin Co., Spencer St.; electrical work, to Butler & Perry, 7 Pleasant St., Pawtucket. Est. $25,000. Noted Apr. 14, under "Commercial Buildings."

UNCLASSIFIED

PROPOSED WORK

Mass., Boston — TRAFFIC CIRCLE — City, Transit Dpt., traffic circle, Haymarket Sq. near vehicular tunnel entrance. $1,000,000 or more. R. Springer, 1 Beacon St., engr.

Va., Roanoke—TELEPHONE LINES, etc.—See "Commercial Buildings."

BIDS ASKED

N. Y., East Islip—RESIDENTIAL DEVELOPMENT—See "Contracts Awarded."

N. Y., Fire Island—RESIDENTIAL DEVELOPMENT—See "Contracts Awarded."

N. Y., Poughkeepsie — REFRIGERATION WORK—June 1, by Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, refrigeration work in farm colony, tuberculosis building, in continued treatment buildings, in kitchen and dining room section Buildings 13 and 14, at Hudson River State Hospital; adv. E. N.-R. May 5.

CONTRACTS AWARDED

Calif., Sacramento — SUBMARINE CROSSING—Pacific Gas & Elecrtic Co., 245 Market St., San Francisco, submarine crossing at Channel St., waterway in 3rd St., to B. C. Gerwick & G. Pollock, 112 Market St., San Francisco, $26,045.

Mass., Barnstable — COMFORT STATION — Town, F. Scudder, chn., 1 story, 40 x 105 ft. comfort station, at Craigville Beach, to Seabury Bearse, Centreville. Est. $25,000. Noted Apr. 21.

Mass., Boston — ELEVATORS — Christian Science Publishing Society, c/o C. L. Churchill, archt., 9 Newbury St., electric elevators, in publishing building, Back Bay Sect., to Westinghouse Electric & Mfg. Co., 10 High St. Est. $100,000. Noted Aug. 27, under "Unclassified Buildings."

Mass., Brookline—RETAINING WALLS, etc.—Town, School Comn., retaining walls, fences, approaches, general storage building, drains, grading at new Wm. H. Lincoln School, to R. White, 67 Cherry Pl., West Newton, $32,171.

Minn., Minneapolis—ASPHALT PLANT—City, asphalt plant, comprising steel frame to house machinery, furnishing, placing machinery equipment, to Simplicity System Co., Chattanooga, Tenn., $39,700.

N. Y., East Islip—RESIDENTIAL DEVELOPMENT—Gleeson & Dolan, 152 West 42nd St., New York, summer home colony, incl. 50 frame houses, also subdivision, street, sidewalks, waterworks, separate contracts.

N. Y., Fire Island—RESIDENTIAL DEVELOPMENT—Gleeson & Dolan, 152 West 42nd St., New York, residential development, incl. sidewalks, waterworks on 60 acre tract, Ocean Bay Park, Ocean Beach, day labor and separate contracts. To exceed $200,000. **Maturity soon.**

N. Y., New York—STATION FINISH—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., station finish for Bway.-Lafayette St., 2nd Ave., Delancey St., East Bway. Stations and station finish for part Rapid Transit Railroad, to Meads Eng. Co., 217 West 14th St., $371,113 and $371,413 respectively.

N. C., Charlotte — RADIO BROADCASTING STATION—Station W.B.T., Inc., Nation's Ford Rd., 8 mi. from here, controlled by Columbia Broadcasting Co., 485 Madison Ave., New York, equipment for radio station, to R.C.A. Victor Co., Inc., R. G. Beerbower, superv. engr., 153 East 24th St., New York, $100,000; 1 story, basement, brick, concrete, power radio station building, to Southeastern Constr. Co., Charlotte, $20,000. Noted Mar. 17.

Que., Montreal—TRAFFIC LIGHT SYSTEM—City, A. Weldon, chn. com., installing robot traffic lights at 40 intersections, to Northern Electric Co. Ltd., 637 Craig St. W., $119,000. Est. $150,000. Noted Oct. 1.

MATERIALS

PROPOSED WORK

ROAD OIL — **Bakersfield, Calif.** — City purchasing 10,000 bbl. road oil. J. Holdfelder, city engr.

ROAD OIL, etc.—**Austin, Minn.**—Mower Co., bids probably this month 450,000 gal. road oil; bids later one caterpillar, "60" tractor.

BIDS ASKED

WATER PIPE—**Salada Beach, Calif.**—H. Van Hook, clk. Salada Beach Public Utility Dist., taking bids 2,000 ft. 4 in. water pipe.

ROAD OIL—**Tulare, Calif.**—May 15, by City Council, 5 carloads light road oil.

CULVERT PIPE—**Eldora, Ia.**—See "Streets and Roads."

EXPANSION CASTINGS—**Minneapolis, Minn.** May 12, by F. S. Gram, city purch. agt., expansion castings for Waterworks Dpt. $800-$1,100. N. W. Elsberg, city engr.

STONE, etc.—**Minneapolis, Minn.**—May 9, by F. S. Gram, city purch. agt., 20,000 tons broken stone, either trap rock or granite for Paving Dpt.; 2,000 tons mineral dust for asphaltic concrete. N. W. Elsberg, city engr.

BITUMINOUS MATERIAL — **Warrensburg, N. Y.**—May 11, by B. E. Murray, supt. Hys. Warren Co., 61,730 gal. applied bituminous material T, cold application; 10,000 gal. bituminous material A cutback, f.o.b. carload lots any railroad station in Warren Co.; adv. E. N.-R. May 5.

ASPHALTUM ROAD OIL—**Watervliet, N. Y.**—May 13, by K. V. Moran, city clk., furnishing, applying 120,000 gal. asphaltum road oil on various streets, for Dpt. P. Wks.

CEMENT, SAND, etc.—**Johnstown, Pa.**—May 9, by W. C. Wehn, secy. Bd. Educ., 201 High School Bldg., cement, slag sand, limestone, ready mixed concrete and asphalt paving materials.

CURB GUARDS — **Pittsburgh, Pa.** — See "Bridges."

TAR, ASPHALT, etc.—**Green Bay, Wis.**—May 10, by State Hy. Comn. and Hy. Coms., Calumet, Door, Kewaunee, Marinette, Shawano and Winnebago Counties, Nicolet Bldg., 1,444,000 gal. asphalt type C, 304,000 gal. asphalt type E, Grade 2, 104,000 gal. tar type E; 98,000 gal. asphalt type C 50-60, Calumet Co.; 170,000 gal. asphalt type C 50-60, Door Co; 28,000 gal. asphalt type C, 50-60, Kewaunee Co.; 190,000 gal. asphalt type C 50-60, Marinette Co.; 114,000

Materials (Continued)

gal. asphalt type E grade 2, Option A, 40,000 gal. tar type B, Option B, 40,000 gal. asphalt type E; 560,000 gal. asphalt type C 50-60 and 60-70, Shawano Co.; 446,000 gal. asphalt type C 50-60, Winnebago Co.

CORRUGATED IRON PIPE, etc.—**Wyoming**—May 11, by State Hy. Dpt., Cheyenne, corrugated metal pipe, black welded pipe treated bridge timber, treated bridge piling, road oil and cut back asphalt.

CONTRACTS AWARDED

WATER PIPE, etc.—**Los Angeles, Calif.**—T. Oughton, city purch. agt., City-County Bldg., furnishing, delivering by cars or trucks, 20,000 lin.ft., laying length, 12 in. inside diam. bell and spigot c.i. water pipe f.o.b. Dpt. Water & Power, Slauson and Compton Avenue Yard, Aqua Siding and 30,000 lin.ft. laying length, 8 in. inside diam. bell and spigot c.i. pipe f.o.b. Hewitt Street Yard, Hewitt Spur of Atchison, Topeka & Santa Fe R.R., to United States Fdry. Co., 6917 McKinley St, $73,410; 10,000 lin.ft. laying length, 8 in. inside diam. and 20,000 lin.ft. 12 in. inside diam. f.o.b. Hewitt Street Yard, Hewitt Street Spur of Atchison, Topeka & Santa Fe RR., to American Cast Iron Pipe Co., 412 West 6th St., $33,450; 20,000 lin.ft. laying length, 8 in. inside diam., Slauson and Compton Avenue Yard, Aqua Siding and 15,000 lin.ft. laying length, 8 in. inside diam. f.o.b. Aetna and Vester Sts., Van Nuys, to Natl. Cast Iron Pipe Co., 710 4th Pl. $23,050; 10,000 lin.ft. laying length, 8 in. inside diam. f.o.b. Slauson and Compton Avenue Yard, Aqua Siding, Atchison, Topeka & Santa Fe R.R., and 15,000 lin.ft. laying length, 8 in. inside diam. Aetna and Vesper Sts., Van Nuys, to Pacific States Cast Iron Pipe Co., 417 South Hill St., $16,480. Grand total $146,390.

COLD PATCH ASPHALT—**New London, Conn.**—City, Dpt. P. Wks., 10,000 to 20,000 gal. cold patch asphalt, to M. E. Lemery, at 5.8c. per gal.; 40,000 to 80,000 gal. road oil, to E. S. Sirine, 4.17c.; 20,000 to 40,000 gal. road tar, to Indiana Coal Tar Co., 8.98c., all contractors, c/o Dpt. P. Wks.

STONE CHIPS, etc.—**Wilmington, Del.**—Levy Court Comn., 600 tons stone for general use truck delivery, to A. Petrillo Co., 5 Edgemoor Rd., Holly Oak, $1,040; 10,000 tons general stone, railroad delivery, and 9,166 tons ½ in. stone chips for surface treating, to John T. Dyer Quarry Co., Norristown, Pa., $12,400 f.o.b., and $18,650 with freight charges delivered, also $1.40 a ton or $12,832 f.o.b. respectively; ready mixed concrete, to Warner Co., $8 to $9.25 per ton according to distance of hauling 1,000 tons prepared mixture for patching and reconstruction work, to Suburban Constr. Co., Devon, Pa., at $4.15 per ton, truck delivery (railroad delivery same company 1,000 tons); 75,000 gal. tar for surface treating, to Barrett Co., 36th St. and Grays Ferry Ave., Phila., Pa., $5,250; 150,000 gal. asphalt for surface treatments, to Lake Asphalt & Petroleum Co., Harrisburg, Pa., $3,900; 10,000 gal. cold patch material, to Headley Emulsified Products Co., Franklin Trust Bldg., Phila., Pa., $744; application on surface treatment to Short & Walls Lumber Co., Middletown, $12,251. Est. $75,000.

PIPE, etc.—**Corydon, Ia.**—Wayne Co., 4,935 ft. corrugated culvert pipe and eighteen 40 ft. degree elbows, to Iowa Culvert & Pipe Co., Des Moines, 3,683. Noted Mar. 24.

CRUSHED STONE—**Lynn, Mass.**—City, City Hall, 10,000 tons crushed stone, various sizes as needed, to Malden Crushed Stone Co., 821 Bway., Saugus, rates 80c. per ton Nos. 1 and 2, $1 pea stone.

PENETRATION ASPHALT—**Lynn, Mass.**—City, City Clerk, furnishing penetration asphalt and surface asphalt for road building purposes, to Barber Asphalt Co., 1600 Arch St., Phila., Pa., at 6c. per gal. Noted Apr. 14.

WATER PIPE—**Swampscott, Mass.**—Town, Water Dpt., 150 tons c.i. water pipe as specified, to U. S. Pipe & Fdry. Co., 1421 Chestnut St., Phila., Pa., at $28.90 per ton.

ROAD OIL—**Minneapolis, Minn.**—Hennepin Co., A. P. Erickson, aud., 500,000 gal. road oil No. 1, 300,000 gal. No. 2, to Standard Oil Co. of Indiana, 13th St. and Harmon Pl., at 3.39c. and 4.67c. per gal. respectively. Noted Mar. 31.

SPECIAL CASTINGS—**Minneapolis, Minn.**—D. S. Gram, city purch. agt., special castings for Water Dpt., to Jeffery-Quest Fdry. Co., 900 South 4th St., $1,165. Noted Apr. 14.

ROAD OIL—**Clayton, Mo.**—Comrs. St. Louis Co., 100 cars road oil (to be ordered as needed during 1932) to Standard Oil Co. of Indiana, 314 North Jefferson Ave., St. Louis, Grades E-2 and E-3 at 2.44c., and Grade E-4 4.24c. per gal. Noted Apr. 7.

CARPET ASPHALT — **New York** — State Superintendent Standards & Purchase, State Dpt. P. Wks., Division of Hys., Albany, furnishing, applying 180,000 gal. carpet asphalt on various hys., to Standard Oil Co. of New York, 112 State St., Albany, at 7.27c. per gal.

PIPE—**Portchester, N. Y.**—City, 150 tons 12 and 16 in. c.i. water pipe, to Donaldson Iron Wks., Emaus, Pa.

PIPE—**Richmond, Va.**—See "Sewers."

PIPE—**Yakima, Wash.**—For 1,300 tons 16- to 24-in. sand spun centrifugal c.i. pipe for new supply line from Naches reservoir to city's distribution system, to Inland Pipe & Supply Co., Yakima, $48,755. Noted Feb. 2.

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BRIDGE TIMBER, etc.—**Wyoming**—State Hy. Comn., Cheyenne, to M. A. Disbrow & Co., Lyons, Ia., piling, bridge timber, on State Project 991, $2,106, on Federal Aid 91 $1,734, on F.A.P. 151A, $1,043, on State Project 985, $1,098, on Federal Aid 41, $4,241; to Johns Manville Sales Corp., 230 North Michigan Ave., Chicago, Ill., asphalt plant, Federal Aid 41, $512; to Standard Oil Co. of Indiana, 910 South Michigan Ave., Chicago, Ill., road oil and cut back asphalt for various projects, $103,959 to Sheridan Iron Wks., Inc.; corrugated metal pipe, Federal Aid 151A, $467; to R. Hardesty Mfg. Co., 3063 Blake St., Denver, Colo., corrugated metal pipe Federal Aid 91, $2,610; on Federal Aid 41, $2,619. Grand total $120,389.

EQUIPMENT

PROPOSED WORK

TRUCKS—**Fresno, Calif.**—City, H. S. Foster, clk., purchasing 2 motor trucks for Street Dpt.

GASOLINE SHOVEL, etc.—**Sparks, Nev.**—City purchasing gasoline shovel and concrete mixer. $4,500.

SIGNAL EQUIPMENT—**Nichols, N. Y.**—Delaware, Lackawanna & Western R.R. Co., G. J. Ray, ch. engr., Hoboken, N. J., purchasing automatic signals at Main St. and other locations. Will install same by day labor.

RADIO EQUIPMENT — **Roanoke, Va.** — See "Commercial Buildings."

BIDS ASKED

DISTRIBUTORS—**Indiana**—May 11, by State Hy. Comn., State House Annex, Indianapolis, four to six 500 gal. distributors J. J. Brown, dir.

FIBRE CONDUIT—**Chicago, Ill.**—May 10, by Dpt. Gas & Electricity, City Hall, fibre conduit required during 1932 for maintenance of municipal electric street lighting system. W. A. Jackson, comr.

BOILER—**Kansas City, Kan.**—May 11, by Bd. P. Utilities, C. A. Lowder, secy., 6,000 hp. water tube boiler for municipal light plant. Burns & McDonnell Eng. Co., 406 Interstate Bldg., Kansas City, Mo., engrs.

VERTICAL TUBE BOILERS—**Boston, Mass.**—May 12, by Metropolitan Dist. Comn., 20 Somerset St., 4 vertical tube boilers 98 in. diam., 24 ft. high for working steam pressure of 185 lb. per square inch. W. E. Foss, dir. Water Div.

TRUCK or CAR—**Chaska, Minn.**—May 10, by W. Schimalpfenig, aud. Carver Co., truck or car of deliver chassis type.

ELECTRIC DRILL, etc.—**Bexley, O.**—May 16, by Bd. Educ., L. M. Krumm, clk., 364 North Ardmore Rd., electric drill, metal and woodworking chemistry and science equipment for new high school.

ICE PLANT AMMONIA SYSTEM, etc.—**Columbus, O.**—May 27, by Dpt. P. Welfare, 9th and Oak Sts., T. S. Brindle, dir., ice plant ammonia system, 20 tons daily; creamery equipment, incl. one 400 gal. and one 200 gal. pasteurizers; one 600 gal. separator; one 600 gal. churn; one 600 gal. aerator cooler.

TRUCK, etc.—**Plains** (br. Wilkes-Barre), **Pa.**—May 16, by A. Randell, secy. Plains Twp. Bd., 1½ ton road truck, caterpillar tractor and road grader.

CONTRACTS AWARDED

METERS, CONNECTIONS, VALVES—**Chicago, Ill.**—Dpt. P. Wks., City Hall, A. A. Sprague, comr., furnishing, installing, four 36 in. Venturi meters for Mayfair Water Pumping Station, 4850 Wilson Ave., to Builders Iron Fdry. Co., 122 South Michigan Blvd. $6,790; tapping connections and valves required by Bureau of Engineers for various water pumping stations, to Michigan Valve & Fdry Co., 160 North La Salle St., $10,019.

MANHOLE and HANDBOX COVERS—**Baltimore, Md.**—Bd. Awards, furnishing, delivering manhole and handbox covers and frames for use of Mechanical-Electrical Service, to American Brake Shoe & Fdry. Co., Fulton Station, $2,293. Noted Apr. 14.

PUMPS—**Two Harbors, Minn.**—City, E. Carlson, clk., 2 electrically driven pumps for city water and light plant, to Duluth Plumbing Supplies Co., 332 West Michigan St., Duluth, $5,117. Noted Feb. 26.

ROLLERS, GRADERS, SWEEPERS, etc.—**Pennsylvania**—State Dpt. Properties & Supplies, Harrisburg, to Austin Western Road Mchy. Co., Widner Bldg., Phila., fifty-six 3 wheel, 10 ton rollers at $2,300 each, 69 heavy drawn type graders, $1,109 each; to Good Roads Mchy. Co., Phila., 75 chip spreaders $161.04 each, 1 crushing plant, reduction type, $7,700, 1 portable crushing plant $4,223; to W. A. Reddell Co., Bucyrus, O., 30 power wheel type graders $1,561.83 to $1,569.72 each; to Galion Co., Telegraph Bldg., Harrisburg, 50 power type graders $1,674.75 each; to C. H. Vass Co., New York, 19 sweepers $474 each; to Loder & Sharp, Inc., 3131 Pwltn. St., Phila., six ten ton tractors $3,300 each; to H. B. Farquar Co., York, 17 sprinkler tanks $243 each; to Highway Trailer Mfg. Co., Edgerton, Wis., three 35 ton trailers $2,000 each, four 20 ton trailers $1,625 each; to Service Supply Co., 20th and Venango Sts., Phila., 8 bucket type, crawler mounting loaders $2,350 each, 9 bucket type, wheel mounting loaders $1,535 each; to Littleford Bros., 18 heating kettles $101.48 each; to LuDel Conveyor & Mfg. Co., New Philadelphia, O., 2 belt type conveyors $540 each; to O. K. Clutch Mfg. Co., Columbia, 4 air drills $249.50 each; to Barber-Greene Co., 401 North Broad St., Phila., car unloading feeder $330.

TRANSFORMER CASES—**Milwaukee, Wis.**—City, to G. E. Zimmermann, 1634 South 8th St., 440 c.i. transformer cases from $1.50 to $3.90 each; 800 D.D. valve boxes complete at $3.50; 200 top sections at $1; 50 D middle sections at 90c., 300 extension pieces at 59c.; 110 manhole covers $1.80.

SWITCHBOARD, etc.—**Two Rivers, Wis.**—City, E. J. Donnelly, mgr., switchboard and auxiliary equipment to Westinghouse Electric Co., 20 North Wacker Dr., Chicago, Ill., $[illegible]940. Est. $20,000. Noted Dec. 24.

FOREIGN

Argentina, Avellaneda—Armour & Co., Buenos Aires, plans reconstructing packing plant, destroyed by fire. To exceed $150,000. Part of work will proceed at once.

Colombia—Imperial Oil Co. Ltd., 56 Chamber St., Toronto, Ont., subsidiary Standard Oil Co. of New York, 26 Bway., New York, plans petroleum refinery, probably in vicinity of Cartagena. To exceed $1,000,000. **Maturity indefinite.** Project is dependent upon tariffs and restrictions upon oil importations into United States.

El Salvador, San Salvador—Junta de Fomento, Municipality of San Salvador, plans construction program, incl. 2 bridges, university and medical school laboratory, post office and central telegraph office. $3,500,000.

England, Plymouth—Societe le Sulfulphosphate, Paris, France, plans fertilizer manufacturing plant, production to exceed 15,000 tons. To exceed $200,000.

Mexico, Tampico—R. G. Piper, Apartado 84 Tampico, wants prices and data on furnishing small water wheel, turbine or undershot.

South Africa, Johannesburg — June 6, by South African Railways and Harbour Bd., year's supply vacuum brake gear, rubber parts, such as hose, pipe, rolling rings, joint rings, coupling washers, piston and gland packing rings, valve diaphragmis and vertical ball valve diaphragms.

Commercial Buildings

PROPOSED WORK

Del., Wilmington—E. W. Martin, archt., Du Pont Bldg., authorized by Wilmington Bd. Educ., to proceed with preliminary studies for plans and designs for 2 new high schools, with the understanding that there will be no funds for such a study forthcoming at the present time provided that the City Solicitor approves his accepting the authorization with that stipulation. $1,000,000.

Ill., Chicago—Albert Kahn, Inc., archts., 1000 Marquette Bldg., Detroit, Mich., soon lets contract 1 story 100,000 sq.ft. rein.-con. brick, steel exposition building, wood pile found., Worlds Fair Exposition Grounds, for General Motors Corp., General Motors Bldg., Detroit, Mich. $1,000,000. Noted Sept. 3.

O., Cleveland—First Hungarian Reformed Church, J. Herczegh, pastor, 2850 East 79th St., soon lets contract 1 and 3 story, brick, steel, concrete church and educational building, Buckeye Rd. and East Blvd. $200,000. H. W. Maurer, 5716 Euclid Ave., archt. Noted Mar. 10.

Va., Roanoke—Chespeake & Potomac Telephone Company of Virginia, 703 East Grace St., Richmond, C. H. Weber, genl. mgr., 3 story (ultimately 5 story) 85 x 140 ft., exchange, limestone, granite trim, aluminum spandrels, radio terminal transmission, tele-typewriter equipment, dial exchange, underground cable system, Luck Ave. and 3rd St. $1,700,000.

BIDS ASKED

Conn., Bridgeport—May 18, by St. Vincent's Hospital, 2820 Main St., 3 story, brick, steel hospital wing, Main St. $500,000. E. G. Southey, 955 Main St., archt. Noted Dec. 17.

Conn., Waterford—May 16, by Seaside Sanatorium, State Tuberculosis Comn., Hartford, 1 story, 45 x 250 ft. tuberculosis infirmary unit, brick, Magonk Pt. $200,000. C. Gilbert, 244 Madison Ave., New York, archt.

Ind., Muncie—June 15, by Ball State College, 3 story, basement, rein.-con., brick, stone Fine Arts College. $325,000. G. F. Schrieber, 801 Architects Bldg., Indianapolis, archt.

Md., Buena Vista—June 2, by District Comrs., District Bldg., Wash., D. C., sanitorium and refrigeration building at nurses home, Buena Vista, near Glendale. $366,000.

Mass., Boston—May 11 (extended date), by City, Dpt. School Buildings, 2 story, basement, brick, stone, steel school, plain found., Prescott Emerson Dist., East Boston. $150,000. Desmond & Lord, 1 Beacon St., archts. Noted Apr. 21.

Mass., Boston—New England Deaconess Hospital, W. S. Cook, supt., taking bids on revised plans, 3 story, basement, brick, stone hospital addition, known as Baker Clinic, plain found., Deaconess Rd. $150,000 or more. Coolidge, Shepley, Bulfinch & Abbott, Ames Bldg., archts. Noted Feb. 18.

N. J., East Orange—H. A. Walker, archt., 360 Main St., taking bids general contract 2 story, basement, brick, stone, steel church addition, Ashland Ave., for Swedish Free Lutheran

Commercial Buildings (Continued)

Church, C. Anderson, in charge, 24 Moore Terrace, West Orange. $150,000.

N. J., Fort Lee—Fort Lee Constr. Co., 346 Tom Hunter Rd., taking bids separate contracts 6 story, basement, brick, steel apartment. $200,000. DeRose & Cavalieri, 370 East 149th St., New York, archts.

N. J., Hackensack—See "Contracts Awarded."

N. J., Hackensack—Odd Fellows Assn., 153 Main St., bids about May 2, general contract 2 story, basement, 75 x 200 ft., brick, steel club house, 23 Warren St. $200,000. C. V. R. Bogart, 210 Main St., archt. Noted Feb. 11.

N. J., Lakehurst—Legion Memorial Assn., S. A. Loneman, pres., Cramon Dr., Toms River, bids about June 1, general contract 1 story, basement, tower, 85 x 115 ft. memorial chapel, Stacy Park. $1500. P. P. Cret, archt., Otis Bldg., Phila., Pa., archt. Noted Nov. 19.

N. J., Lodi—Bd. Educ., A. Cody, pres., Union St., plans completed and takes bids about May 16, Junior and Senior High School, 2 story, 140 x 230 ft., Westervelt Pl. and 1st St. $340,000. F. Pirrone, 104 Midland Ave., Garfield, archt. Soon takes bids demolition buildings on site. Noted Feb. 18.

N. J., Maplewood—W. E. Lehman, archt., 972 Broad St., Newark, taking bids general contract 2 story, basement, brick, steel store, for Walnut Hale Realty Co., c/o architect. $150,000.

N. J., Newark—Fanning & Shaw, archts., 49 Ward St., Paterson, bids about May 15, altering and constructing 2 story, basement, brick, steel church addition, Mulberry St., for St. Johns Roman Catholic Church, 22 Mulberry St. $150,000.

N. Y., Port Jervis—S. Holden Realty Corp., 18 Ball St., new bids about May 16, general contract 2 story, basement, brick, steel office, store. $150,000. Private plans.

N. Y., Westbury—See "Contracts Awarded."

Pa., Grove City — Mercer County Memorial Assn., c/o G. Peranteau, bids about May 6, general contract, granite marble or bronze combination mausoleum and chapel. $100,000. J. E. Morck Mausoleum Service, Clyde, O., designer. Noted Apr. 21.

Pa., Oil City—May 17, by Bd. Educ., R. M. Stanton, pres., Vaach Bldg., Senior High School, 4 story, basement, 90 x 200 ft., brick, hollow tile, stone, steel, Graff St. $227,000. W. Crosby, 31 Beers Bldg., archt. Noted Apr. 28.

Pa., Pittsburgh—Keystone Constr. Co., 1804 Law & Finance Bldg., taking bids separate contracts 3 story, basement, 33 x 64 ft., brick, steel apartment, vapor gas fired heating, Millvale and Morewood Sts. J. W. Hoover, 1280 Washington Rd., Mt. Lebanon, archt.

Pa., Uniontown—Second Methodist Protesant Congregation, C. E. Morris, building comr., taking bids 2 story, basement, 32 x 50 ft. Sunday school, brick, limestone, East Winona and Clark Sts. $150,000. Church, 1 story, 40 x 80 ft., held up. J. C. Fulton & Sons, Citizens Title & Trust Bldg., archts.

R. I., Central Falls — See "Contracts Awarded."

Man., Elkhorn—May 12, by J. E. Lowry, comr. Manitoba Telephone System, McDermot and Charlotte Sts., Winnipeg, new telephone exchange building. $150,000 or more. A. Melville, National Trust Bldg., Winnipeg, archt.

CONTRACTS AWARDED

Calif., San Francisco — S. Berkey, 6 story, basement, rein.-con., steel apartment, Pine St., to Cahill Bros., 206 Sansome St. $165,000.

Conn., Darien — Town, H. J. Case, Police Dpt., general contract not incl. mechanical equipment, 2 story, basement, 60 x 70 ft. brick, cast stone police station, to Silberblatt & Lasker, Inc., 11 West 42nd St., New York. Est. $150,000. Noted Apr. 7.

Conn., Norwich—Norwich Free Academy, C. B. Palmer, press., general contract 2 story, basement, 75 x 240 ft., brick, concrete, steel commercial high school unit, to Pieretti Bros., Centerbrook, $168,000. Noted Mar. 31.

Ill., Chicago — St. Jeromes Roman Catholic Church, D. Frawley, pastor, 2 story, basement, 70 x 175 ft. social center and gymnasium, 1715 Lunt Ave., to W. J. Lynch, 844 Rush St. Est. $150,000.

Ill., Springfield — State of Illinois, Capitol Bldg., W. J. Stratton, secy., repairing capitol dome, to W. M. Allen Son & Co., Jefferson Bldg., Peoria, $129,740. Noted Mar. 22.

Mass., Boston—First National Bank of Boston, 67 Milk St., altering 3 story, basement brick bank, to W. O. Nichols, 1 Federal St. Est. $150,000 or more.

Mass., Boston—A. Hill, Exchange Bldg., altering and reconstructing 3 story, basement, brick store and office, plain found., Washington and Stuart Sts., to N. Fritz Constr. Co., 62 Maywood St., Roxbury. Est. $150,000.

Mass., Cambridge — St. Peter's Episcopal Church, c/o Allen & Collens, archts., 75 Newbury St., Boston, 2 story, basement church, to I. H. Bogart & Son, Inc., 69 Newbury St., Boston. Est. $150,000 or more. Noted Apr. 14.

Mass., Leominster — St. Cecilia's Roman Catholic Church, J. Chicoine, pastor, 168 Mechanic St., 1 story, basement, brick, stone church, plain found. to J. P. Keating, 58 Front St., Worcester. $150,000.

Mass., Norton—Wheaton College, J. E. Park, pres., 3 story, basement, brick double dormitory, plain found., to H. W. Marshall Co., Inc., 522 Harrison Ave., Boston. Est. $150,000 or more.

N. J. Hackensack—Kramer Constr. Co., Inc., 3010 Hudson Blvd., Jersey City, 4 story, basement, brick, steel, rein.-con., apartment, Anderson St., separate contracts in September. $150,000. M. Kraut,, 3010 Boulevard, Jersey City, archt.

N. Y., New York—Mount Sinai Hospital, 1 East 100th St., altering 5 story, 54 x 100 ft. out patients dispensary, to Rheinstein Constr. Co., 21 East 40th St. Est. $150,000. Noted Apr. 14.

N. J., Tenafly—Bd. Educ., M. Stillman, ch. Building Com., West Clinton Ave., general contract 3 story, basement, brick, steel high school addition, to E. W. Johnson, 706 Bergen Ave., Jersey City; plumbing, to Zabransky Bros., 19 Picken St., Little Ferry; heating and ventilating, to R. G. Maupai, 62 Hancock Ave., Jersey City; electrical work, to Badaracco Bros., 403 Washington St., Hoboken; steel and iron, to Selbeck Meyer Co., 602 22nd St., West New York. Est. $150,000. Noted Apr. 14 Daily.

N. Y., Westbury—McGowan-Stynes Organization, J. T. Stynes, in charge, 225 West 34th St., residential development, incl. community projects, etc., Morningside Heights, and Old Country Rd., separate contracts.

Ore., Sheridan — Dougan-Reverman, Inc., archts., Kramer Bldg., Portland, to Poole & McGonigle, Inc., 1650 Halsey St., Portland, structural steel for 4 story, basement, 40 x 378 ft. steel, rein.-con. college, plain found., for Jesuit Fathers, Sheridan, $16,250; to O. Schulz Plumbing & Heating Co., 747 Northrup St., plumbing $7,473; to A. G. Rushlight & Co., 381 Morrison St., Portland, heating $14,900; to C. K. Spaulding Logging Co., 335 East Main St., Portland, mill work $4,150, glass and glazing $1,410; sand and gravel; to Truscon Steel Co., 463 Kirby St., Portland, reinforcing steel, $5,000; wire mesh $692. to Willamette Valley Lumber Co., Gerlinger Bldg., Portland, lumber; to Wilson Bros., 4940 Foster Rd., Portland, excavation. Total est. $400,000. Noted Mar. 6.

Pa., Pittsburgh—L. Wolf, archt., Grant Bldg., Fresh Air Farm Buildings, 1 story, 78 x 124 ft. stone dining room, kitchen, reception and library building, 26 x 51 ft. sleeping cabin, Perry Hy., to John Carson & Sons, 1301 Fulton Bldg., for Methodist Episcopal Church Union, 7th and Smithfield Sts., H. J. Samson, pres. Noted Apr. 21.

Pa., Williamsport—Mater Dolorosa Church, A. Manley, pastor, general contract 3 story, basement, rein.-con., steel church, to Yetter Bros., Tyrone. Noted May 14, 1931.

R. I., Central Falls—Monast Realty Co., L. Monast, 188 Main St., 1 and 2 story, basement, brick, concrete, steel theatre, plain found., 754-758 Broad St., separate contracts. $150,000-$175,000. C. W. Swanson, 21 High St., Pawtucket, archt. Noted Feb. 25.

Wash., Chehalis—Lewis Co., clearing, grubbing, surfacing 2.3 mi. McNulty-Burpee Rd., and 3.4 mi. Cinnebar-Silver Creek Rd., to Hendricks & Co., Chehalis, $16,972 and $27,350 respectively. Est. $20,000 and $27,000 respectively. Noted Mar. 31.

Industrial Buildings

PROPOSED WORK

N. Y., New York — GARAGE — Two Streets Corp., A. O. Englander, pres. 295 Madison Ave., bids after May 9, general and separate contracts altering 1 story, 66 x 197 ft. studio and office into 3 story service garage, 146 East 25th St. $40,000. J. Harrison, 220 East 42nd St., archt.

BIDS ASKED

Ind., Muncie—BOILER PLANT—May 9, by Bell Teachers College, remodeling brick, steel boiler plant, new equipment desired. $40,000. C. R. Ammerman, 924 Continental Bank Bldg., Indianapolis, engr.

Mass., Malden — WAREHOUSE — See "Contracts Awarded."

N. J., Clifton—BOILER PLANTS—See "Contracts Awarded."

N. J., Newark—GARAGE—W. E. Lehman, archt., 972 Broad St., bids about May 2, 1 story, basement, brick, steel, 36-42 Columbia St., for Alling Corp., 33 Ward St. $42,000. Treas. Dpt., Wash., D. C., lessee. Noted Mar. 24.

N. Y., Arverne—LAUNDRY—See "Contracts Awarded."

Tenn., Memphis — GARAGE, etc. — May 9, by Dixie Greyhound Bus Line Co., Shoppers Arcade Bldg., 146 Union Ave., F. Smith, pres., 1 story, 117 x 316 ft., brick garage, office, incl. shop, stock room, blacksmith shop, brake pits, rest rooms, High St. from Adams St. to Washington Ave. $125,000. Jones, Furbringer & Jones, Porter Bldg., archts.

Tex., Fort Worth—CRACKING STILL—See 'Contracts Awarded."

Wash., Bellingham—FURNITURE FACTORY—See "Contracts Awarded."

CONTRACTS AWARDED

Ala., Mobile—PACKING PLANT—Swift & Co., 57 South Commerce St., 2 story, 90 x 140 ft., rein.-con., brick, to G. A. Miller, Tampa, Fla., $80,000. Noted Nov. 12.

Ind., Lafayette—PLANT—Minardo Bros. Co., general contract 1 story, basement, 120 x 135 ft., brick, steel plant, Chestnut St. and Nickel Plate R.R., to Braun Bros. Co., Kokomo. Est. $40,000.

Mass., Malden—WAREHOUSE—F. T. Miles, 40 Upland Rd., Melrose, 2 story, brick, concrete addition, 237 Commercial St., day labor. $40,000. Dirlam & Brennan, 142 Pleasant St., archts. Former contract rescinded.

Mass., Somerville — GARAGE — City, J. J. Murphy, altering and constructing 1 story, concrete, steel municipal garage addition, concrete found., on Fannon Property, to McLean Co., 44 School St., Boston. Est. $40,000. Noted Apr. 14.

Mass., Waltham—SERVICE STATION—Goodyear Tire & Rubber Co., Inc., lessee, 1144 East Market St., Akron, O., 1 story, brick, steel, to A. A. Walsh, 353 Moody St., for Woodward & Tyler (owners), 644 Main St. $50,000. Noted Mar. 10.

Mich., Midland—OIL REFINERY—Pure Oil refinery, to Alco Products Co., 220 East 42d St., New York. Noted Apr. 21, under "Contracts Awarded."

N. H., Nashua—BAKERY—Nashua Baking Co., Inc., 15 Mulberry St., 1 and 2 story, brick addition, to Osgood Constr. Co., 25 East Hollis St. Est. $40,000 or more.

N. J., Clifton—BOILER PLANTS—Forstmann & Huffmann Co., 2 Barbour Ave., Passaic, three 1 story, basement, brick, steel, boiler house plants, Lake and Randall Aves., day labor. $40,000. M. Heiser, 2 Barbour Ave., Passaic, engr. and archt. Noted Apr. 28.

N. J., Dunellen—PLANT—Art Color Printing Co., M. Machlin, in charge, South Washington Ave., general contract 1 story, basement, 50 x 200 ft., brick, steel addition, to Wigton Abbott Corp., 143 Liberty St., New York, $40,000.

N. J., Montclair—AUTO LAUNDRY PLANT and SUPER SERVICE STATION—Kaveny Bros, Inc., 32 Valley Rd., general contract brick, stone, steel, plain found., 310-12 Bloomfield Ave., to J. Gonsalnes Co., 32 Valley Rd. Est. $40,000. Contractors taking bids on laundry equipment, concrete work, overhead doors.

N. Y., Arverne—LAUNDRY—Arverne Holding Corp., 300 Beach 71st St., altering 1 story, 33 x 114 ft. laundry, separate contracts. H. Cashin, c/o owner, archt. Noted Apr. 21.

N. Y., Lowville—DAIRY PLANT—Sheffield Farms Co., 524 West 57th St., New York, rebuilding, day labor. To exceed $40,000. **Maturity in late summer.** Owner will purchase materials. Noted Apr. 21.

N. Y., New York — MANUFACTURING PLANT—Rubel Coal & Ice Co., Fulton St. and Waverly Pl., Brooklyn, altering 2 story, 66 x 97 ft. manufacturing plant, to G. Jensen, 8124 11th Ave., Brooklyn. Noted Apr. 14.

N. Y., Yonkers — WAREHOUSE — Hudson River Holding Corp., c/o H. Watson, Eureka Garage, altering and reconstructing garage into distribution warehouse, Ludlow and Bridge Sts., day labor and separate contracts. To exceed $40,000 with equipment. McKesson-Eisen Drug Co., 79 Cliff St., New York, lessee. Mr. Eisen now purchasing equipment.

Pa., Beaver Falls—MACHINE SHOP—Enterprise Machine Shop, 7th St. and 8th Ave., 1 story, 40 x 90 ft., brick, steel, 7th St. and 8th Ave., to E. Massa, Koppel.

Pa., Grove City — ALUMINUM FORGINGS PLANT—Wendell August Forge, Inc., E. J. Fithian, pres., 1 story, fireproof plant. $40,000. Owner builds. Private plans. Noted May 5.

Tex., Fort Worth—CRACKING STILL, REFINERY WORK, etc.—Magnolia Petroleum Co., Magnolia Bldg., Dallas, cracking still, furnaces and refinery work, to M. W. Kellog Co., 225 Bway., New York. Est. exceeds $40,000. Contractor has awarded all separate contracts, bulk of work by day labor.

Tex., McAllen—REFINERY—Valley Refining Co., c/o W. K. Campbell, McAllen, refinery plant near here, 500 bbl. crude oil and 100 bbl. lubricating oil capacity, incl. manufacturing of gasoline, lubricating oil, greases and kerosene, also installation skimming and blending unit. $40,000. Owner builds. Later plans cracking unit. Private plans.

Wash., Bellingham—FURNITURE FACTORY—Consolidated Furnitures Manufacturers, 380 Eugene St., Portland, Ore., 1 story furniture plant, incl. saw mill, 68,000 ft. floor space, on 4 acre site, northwest side Squalicum Creek waterway, by day labor. $65,000-$75,000.

Wis., Eau Claire—CANNING APPARATUS FACTORY—National Pressure Cooker Co., 1515 Ball St., 1 story, 50 x 100 ft. addition, to Olson & Walker, 304½ North Barstow St.

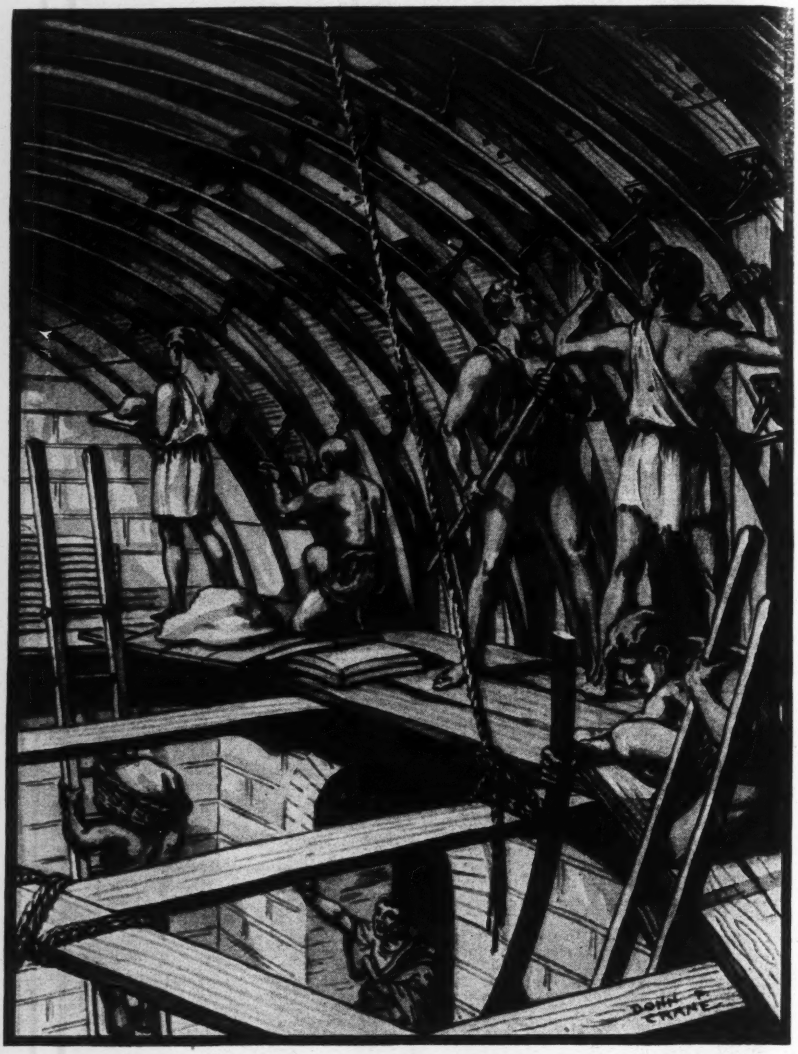
Ont., Kincardine—SPINNING MILL—Circle Bar Knitting Co., W. Mitchell, mgr., 4 story, basement, 50 x 125 ft., brick, steel, to G. Tonley, Kincardine; steel, to Disher Steel Co., 80 Commissioner St., Toronto. Est. $100,000.

Ont., London—FLOUR MILLS—T. Dexter & Sons, Beaufort St., rebuilding flour mills. $85,000. Owner builds. Noted Mar. 31.

Ont., Port Arthur—FREIGHT SHEDS, etc.—H. A. Dixon, ch. engr. Canadian Natl. Rys., Winnipeg, Man., reconstructing 60 x 640 ft. freight sheds on existing pile found., new railways, dock, to W. C. Wells, Wilkie, Sask., $150,000. Noted Mar. 31.

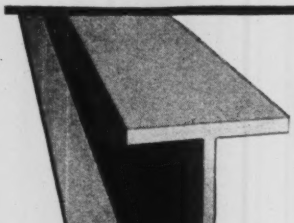
See proposal advertising on page 67

ROME . . . . first great user of iron in building . . . .



THERE are some who say that the ancient Romans used structural iron work to an extent not again equalled until the Nineteenth Century.

One scholar has found evidences of iron beams sixty feet in length. Though this is subject to grave doubt, it is certain that the Romans clearly recognized the structural advantages of iron. T-iron girders have been found in the ruins of the Baths of Caracalla; and early Roman writers have described in detail the employment of iron hooks from which were suspended arched iron rods as the supports for tiled ceilings in steam rooms. The construction was not greatly dissimilar to that employed in more recent days for certain types of fireproof construction.



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CONSTRUCTION NEWS

SECTION OF ENGINEERING NEWS-RECORD—MAY 12, 1932

WATERWORKS

PROPOSED WORK

Calif., Newark—Alameda Co. Water Dist. soon takes bids 10,000 gal. steel tank, pumping equipment. C. Williams, Jr., 369 Pine St., San Francisco, engr.

Del., Wilmington—Bd. Water Comrs. applied to City Council for $60,000 to be spent during coming fiscal year on upkeep and extensions to present water system.

Mo., East Prairie—City survey, waterworks distribution system.

N. Y., Rockville Center—Bd. Trustees approved issuing $25,000 waetrmain construction proved issuing $25,000 watermain construction

S. C., Greenwood — City, c/o F. Chapman, supt. Water Works, soon takes bids 25,000 s f gunite on clear water wells and constructing steel frame cover for wells. $15,000. Wiedeman & Singleton, Candler Bldg., Atlanta, Ga., consult. engrs.

S. D., Woonsocket—State Game & Fish Comn., A. F. Whitney, secy., Pierre, bids in June or July, artesian well and crappie culture pond in Twin Lakes, Sanborn Co. $3,000.

Wash., Cashmere—Wenatchee Valley Irrigation Assn. 30 mi. 22- to 24-in. steel pipe gravity high line system in Wenatchee Valley from Snow Lake to carry mountain water, for domestic and irrigation uses, to supply Cashmere and Wenatchee and vicinity. $664,800. Project being financed. M. Chase, Cashmere, consult. engr.

Ont., Kincardine—Town soon takes bids new intake pipe in connection with waterworks plant, probably 3,000 ft. 1-16 in. steel pipe. $25,000. Wynne-Roberts, Son & McLean, Metropolitan Bldg., Toronto, engrs. Noted Jan. 21.

Ont., Weston—Town sinking deep well water supply at Downsview and connecting same with town water supply, incl. several wells, deep well pumps, 2½ mi. 12 in. c.i. mains. $35,000. F. Marshall, Weston, engr.

B. C., Victoria—See "Dams."

Que., Montreal—Executive Com. considering construction 350 m.g. reservoir in Rosemount Ward. C. J. DesBaillets, ch. engr. Water Dpt.

BIDS ASKED

Del., Wilmington—May 19, by School Building Comn. for Mt. Pleasant Dist. 2, at office Delaware School Foundation, 4130 Du Pont Bldg., furnishing, installing water supply for new school, consisting pump, motor and pressure tank for Mt. Pleasant Elementary and High School at Bellevue. R. P. Schoenijahn, Industrial Bldg., consult. engr.

Mass., Boston—May 16, by Dpt. P. Wks., J. A. Rourke, comr., laying, relaying water pipes in various streets in City proper, Dorchester and Roxbury. $15,000.

CONTRACTS AWARDED

Calif., Oakland—East Bay Municipal Utility Dist., one 250,000 gal., one 200,000 gal. and one 80,000 gal. steel storage tanks, to Berkeley Steel Constr. Co., 2nd and Camelia Sts., Berkeley, **$6,320.**

Ill., Elgin—V. H. Kasser, city engr., constructing Lavoie Avenue and Schuler Street Wells and changes at Charles Street Pumping Station necessary to aerate and repump water, incl. sheet metal, electric wiring, roofing sublet, to Illinois Hydraulic Stone & Constr. Co., 20 North Crystal St. Noted Apr. 21.

Ill., Moline—City Council, waterworks addition, filtration and sedimentation beds, 5 m.g. storage tank, equipment, to Central Eng. Co., 809 Putnam Bldg., Davenport, Ia., $310,000. Noted Mar. 17.

Md., Baltimore—Bd. Awards, furnishing, erecting pumping equipment for Towson Automatic Pumping Station, to Industrial Power Equip. Co., 421 West Camden St., $9,291. Noted Apr. 21.

Minn., St. Louis Park—H. Carleton, village clk., one 12 in. well, 500 ft. deep, to McCarthy Well Co., 670 Eustis St., St. Paul, $1,775; 100,000 gal. tank, to Chicago Bridge & Iron Wks., 37 West Van Buren St., Chicago, Ill., $6,745. Noted Apr. 14.

Okla., Pawnee—City Council, waterworks improvements, incl. earth dam 1,700 ft. long, 37 ft. average height, 6,250 ft. 14 in. c.i. pipe, 150 ft. rein.-con. bridge with 18 ft. roadway, 250,000 cu.yd. earth excav., 1,200 cu.yd. concrete, to C. S. Clark Constr. Co., Petroleum Bldg, Oklahoma City, $122,733. Noted Mar. 24.

Pa., Easton—Lehigh Water Co., filtration plant, to Turner Constr. Co., Architects Bldg., Phila. Contractor soon lets contracts for reinforcing steel, other materials, also separate contracts. **Maturity soon.** Noted Apr. 28.

Va., Blacksburg — F. W. Earhart, mayor, water supply additions, incl. 2.5 mi. pressure piping, 2,500 g.p.m. electric driven pump, 300,000 gal. concrete reservoir, to W. W. Gray, Blacksburg, $35,000. Noted Dec. 17.

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Wis., Menomonee Falls—City, W. H. Meyers, clk., brick, rein.-con. pumping station, to Luech Contg. Co., 1537 37th St., Milwaukee. Noted Apr. 21.

Wis., Sturgeon Bay—Utility Comn., J. B. Johnson, supt., concrete reservoir, equipment for water supply, to V. Slavik, Sawyer. Noted

Ont., Stirling—Village, waterworks, Contr. A, to H. T. Routly Constr. Co., 21 Dundas Sq., Toronto. Noted Mar. 10.

SEWERS

PROPOSED WORK

Ill., Lansing—City plans in progress sewage disposal plant, incl. pumping station, treatment plant; appropriation made for purchasing site. $50,000. **Maturity indefinite.** G. Consoer, 205 West Wacker Dr., Chicago, engr.

Ind., Ft. Wayne—Bd. P. Wks., S. S. Snyder, secy., Main Sewer Impvt. 69. $100,000.

N. Y., Mineola—Bids about June, sewerage system extension. $25,000.

Okla., Oklahoma City—City Council, A. McRill, mgr., storm sewer along Santa Fe Right-of-way from 8th St. south. $60,000.

Wis., Mauston—City, E. J. Otto, mgr., sewage disposal plant and equipment.

Ont., Aurora—Town soon takes bids concrete activated sludge sewage disposal plant, and equipment. $30,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Ont., Toronto—East York Twp.—Plans additions to Todmorden sewage disposal plant $32,000, and Danforth Park plant, $19,000, incl. sludge drying beds, concrete construction. G. R. Jack, 443 Sammon Ave., Toronto, engr.

BIDS ASKED

Del., Wilmington—May 19, by School Building Comn., Marshallton Consolidated School Dist., at office Delaware School Foundation, 4130 Du Pont Bldg., constructing sewer extending 1,623 ft. from new school building to outfall sewer of Continental Diamond Fibre Co., also construction septic tank, manholes, incl. 1,135 ft. 8 in. terra cotta bell and spigot pipe, 487 ft. 8 in. c.i. Class "A" water pipe, etc. Guilbert & Betelle, 20 Branford Pl., Newark, N. J., archts.

Ia., Audubon—See "Streets and Roads."

Ia., Belle Plaine—May 16, by City Council, sanitary outfall sewer to replace one in service, incl. 1,968 ft. 18 in. double strength vitr. sewer pipe cradled in cement concrete, 48 ft. 16 in. Class A c.i. pipe, 9 manholes, 1 bulkhead, 110 ft. 24 in. Armco pipe, 17,000 ft. sheeting left in place. Will consider alternate bid on 16 in. c.i. pipe without concrete cradle. Howard R. Green Co., 208 Bever Bldg., Cedar Rapids, engrs. Noted Dec. 24.

Mass., Boston—May 17, by Dpt. P. Wks., J. A. Rourke, comr., sewerage works in Dorchester; May 19 in West Roxbury. $25,000.

Mass., Boston—May 25, by Dpt. P. Wks., J. A. Rourke, comr., sewerage works in Roslindale Brook, etc., West Roxbury. $25,000.

N. Y., Bedford Hills—June 7, at office Dpt. Correction, W. N. Thayer, Jr., comr., Albany, sewers and water lines at New York State Reformatory for Women, $35,895; adv. E. N.-R. May 12.

N. Y., Brooklyn—May 18, by H. Hesterberg, pres. Brooklyn Boro, Boro Hall, substructures and superstructures sewage pumping station, mechanical and electrical equipments, piping, force main, heating and plumbing, within marginal area water front improvement between Flatlands Ave. and Paerdegat Basin. Noted Dec. 3.

N. Y., Middletown—June 8, by Dpt. Mental Hygiene, State Office Bldg., Albany, sewers and water lines at Middletown State Hospital; adv. E. N.-R. May 12.

N. Y., New York—May 16, by S. Levy, pres., Manhattan Boro, Municipal Bldg., sewer in extension Fort Washington Ave.; and receiving basin on south side West 137th St.

O., Cleveland—May 19, by City, sewage treatment plant addition, detritor, additional concrete tanks, waste destroyer buildings, radial brick stack, West 58th St. (Westerly Plant). $250,000. G. B. Gascoigne, Leader Bldg., engr. Noted Apr. 21.

O., Columbus—May 17, by W. P. Helenkamp, dir. Serv., 180 ft. 10½ x 5½ ft. rectangular concrete sewer; 175 ft. 48 in. and 50 ft. 60 in. concrete circular sewer and making connections at South Side Sewage Pumping Station. $26,000. R. H. Simpson, City Hall, engr.

Okla., Oklahoma City—May 17, by M. Peshek, city clk., Santa Fe Storm and Sanitary Sewer, incl. 3,180 ft. 8- to 27-in. vitr. clay pipe. $60,000. L. M. Bush, City Hall, engr.

CONTRACTS AWARDED

Conn., Greenwich—City, disposal plant, Old Greenwich, to Kuchar Bros., Montvale, N. J., $51,323. Est. $65,000. Noted Apr. 21.

Ia., Newton—City Council, remodeling sewage disposal plant, incl. new trickling filter, changing 2 sandbed filters to trickling filters, to Royer Constr. Co., Valley Junction, $25,940. Noted Dec. 24.

Neb., Omaha—City and J. B. Hummel, park comr., 2,508 ft. 18- to 30-in. storm sewers, 2,562 lb. cast iron, catch basin, etc., Main Sewer 1111, Benson Park, between 66th and 72nd Sts., Military and Ames Aves., to F. L. Busche, 4118 North 30th St. $4,711. Noted Apr. 18.

N. Y., Brooklyn—H. Hesterberg, pres. Brooklyn Boro, Boro Hall, to Russell Contg. Co., 8502 91st Ave., Woodhaven, sewage pumping plant and sewer in Avenue M, $568,602; to Newman & Lifson, sewers in East 27th St. $3,926; to V. Clemente, in East 1st St. $3,081, East 26th St. $5,050, Caton Ave. $2,327; to E. Meluccio, 1209 61st St., East 56th St., $1,334, Clarkson Ave. $1,028; to P. Guariero, Schenectady Ave. $1,096. Grand total $586,444. Noted Mar. 31.

N. Y., Brooklyn—H. Hesterberg, pres. Brooklyn Boro, Boro Hall, sewers in Lenox Rd., to E. Meluccio, 1209 61st St., $496; Delamere Pl., to Manmill Constr. Co., 1780 Pitkin Ave., $4,361; East 53rd St., to Iolenti Bros., Bay St., St. George, $1,300. Grand total $6,157. Notedt Apr. 4.

O., Cincinnati—See "Warehouses."

Ont., Fort William—City, general contract sewage disposal plant, to Barnett-McQueen Constr. Co., 207 Cuthbertson Blk., $38,059; electrical equipment, to Canadian General Electric Co., 212 King St. W., Toronto, $1,370. Noted Dec. 17.

Ont., Hamilton—City constructing 3,216 ft. 27- to 36-in. rein.-con. storm sewer in Grosvenor and Lawrence Aves., pipe, own forces, to A. Cope & Son, Albert St., Hamliton, $5,578. Total $34,000.

Ont., Toronto—City, 2 glass covered sludge drying beds, North Toronto Sewage Disposal Plant, to Anglin-Norcross Ltd., Temple Bldg. $28,937. Noted Apr. 21.

BRIDGES

PROPOSED WORK

California—State Hy. Comn., Sacramento, 4 bridges on new Ridge Route Alternate, over Piru Creek, incl. 60 and 80 ft. span steel girder and concrete deck girder bridges, largest bridge, 360 ft. long, incl. combination of three 80 ft. and two 60 ft. spans, Kern Co.; 1,233 ft. rein.-con. deck girder bridge, incl. two 40 ft., one hundred sixteen 60 ft. and three 64 ft. spans over Ventura River, Ventura Co., $340,000. C. H. Purcell, hy. engr.

Calif., Knights Landing—Joint Highway Dist. 12, Yuba City, two 120 ft. steel and two 40 ft. concrete span double leaf bascule bridge, $190,000. O. V. Geldern, Yuba City, engr.

Calif., Rio Vista—Bd. Supervs. Solano Co., Fairfield, 300 to 400 ft. draw bridge over Miner Slough. **Maturity in 1933.** War Dpt. granted permit.

Conn., New Haven—New York, New Haven & Hartford R.R., E. E. Oviatt, ch. engr., New Haven, bridge trestle across Quinnipiac River. $25,000 or more.

Idaho, Bonners Ferry—State Hy. Comn., Boise, survey of site soon for bridge over Kootenai River. $150,000.

Mo., St. Louis — Bd. P. Serv., City Hall, soon takes bids reconstructing and resurfacing

See proposal advertising on page 64

LEADITE

Trade Mark Registered U.S. Pat. Office

20-inch Water Main 9 Miles Long . . .

. . . *Jointed with* LEADITE

It is probably safe to say that most all bell and spigot water pipe is purchased on a basis of performance record. And as a water main is usually a permanent installation this is as it should be. This being the case it would seem logical that the same consideration should be given to the selection of the jointing material that is used to connect the pipe. A great many engineers and water works men throughout the country are familiar with the excellent performance record of Leadite and for that reason specify and use it for jointing their bell and spigot water pipe.

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Saves at least 75%.

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CEMENT
for JOINTING WATER MAINS
MANUFACTURED BY
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PHILADELPHIA, PA.

No Caulking

Bridges (Continued).

pedestrian deck of 21st St. viaduct over Missouri Pacific & Terminal R.R. Assn. tracks, Mill Creek Valley. $25,000.

N. J., Paterson—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., steel, concrete bridge on Hazel Rd. $25,000. **Maturity indefinite.** Private plans.

O., Cleveland—Comrs. Cuyahoga Co. approved construction of Main St. high level bridge and authorized $6,000,000 bonds. Preliminary waterways design concrete and steel approximately 3,000 ft. long, exclusive of approaches, 60 ft. roadway, two 5 ft. walkways, deep caisson work will be required for 3 steel river spans. A. M. Felgate, county bridge engr. Wilbur Watson & Associates, 4514 Prospect Ave., consult. engrs.

Texas — State Hy. Comn., W. R. Ely, chn., Austin, preparing plans, soon takes bids rein.-con. bridges, over 20 ft. span from Point 4,700 ft. west of Devils River to 1,000 ft. west of Castle Canyon, Hy. 3, Federal Aid Project 212 re-opened, Val Verde Co. $70,300 — rein.-con. bridges on Hy. 10 from Bronto to Tom Green Co., State Aid Project 439-D, Coke Co.—steel, concrete bridge over Guadalupe River, Hy. 2, San Antonio-Austin Hy. (new location), Comal Co.

Texas—State, Galveston and Chambers Counties, preliminary plans authorized rein.-con., steel bridge over Intracoastal Canal between Galveston and Chambers Counties; east of High Island on Hy. 112, Galveston-Beaumont Rd. $250,000.

Va., Churchland—State Hy. Comn., Richmond, concrete bridge Norfolk Co., near here **$190,000.**

BIDS ASKED

Illinois—May 18, by State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, protection for pivot pier and west channel pier of Illinois River Bridge at Havana, incl. 13,400 lin.ft. untreated piles, 82 M.B.M. untreated lumber, 21,350 lb. hardware, Route 98, Sect. 112-B Fulton and Mason Counties. F. T. Sheets, ch. hy. engr.

Ia., Washington—See "Streets and Roads."

Maryland—May 18, by Bd. Awards, Baltimore, George's Creek Bridge and Tracey's Store Run Culvert, Harford Co. G. Cobb, Municipal Bldg., Baltimore, hys. engr.

Michigan—May 17, by A. L. Burridge, div. engr., Cadillac, superstructure FBr. 1 of 6-12-21, Contr. 4, one 108 ft. 9 in. steel truss span, 30 ft. roadway, welded battledeck steel floor, **Arenac Co., for State Hy. Comn., Lansing.**

Michigan—May 18, by H. G. Oakes, div. engr. at office Clinton Co. Road Comn., St. Johns, R.Br. 1 of 19-5-29, to have two 55 ft. spans, 2 steel copper bearing sheet pile abutments, teegrid floor, concrete wearing surface, 22 ft. roadway, two 2½ ft. sidewalks, Contrs. 1 and 2, Clinton Co.

Michigan—May 25, by W. J. Kingscott, div. engr., 213 Watson Bldg., Grand Rapids, FBr. 3 of 41-24-7, Contrs. 1 and 2, one 45 ft. span, 40 ft. roadway, 2 rein.-con. semi-gravity type abutments, steel deck girder, rein.-con. flooring, two 6 ft. sidewalks, Kent Co., for State Hy. Comn., Lansing.

Michigan—May 25, by W. J. Kingscott, div. engr., 213 Watson Bldg., Grand Rapids, FBr. 1 of 70-5-17, Contrs. 1 and 2, one 50 ft. span, 40 ft. roadway, 2 semi-gravity type, rein.-con. abutments, steel deck girder, Ottawa Co., for State Hy. Comn., Lansing.

N. J., Freehold—May 25, by Bd. Freeholders Monmouth Co., bridge over Shrewsbury River; adv. E. N.-R. May 12.

Okla., Gray—May 17, by State Hy. Dpt., Oklahoma City, 5 span 960 ft. steel truss bridge on concrete piers, Blaine Co. $250,000. C. L. Wilson, hy. engr.

Oregon—May 18, by State Hy. Comn., Salem, Jefferson Bridge, 700 ft. long, to have three 200 ft. "half through" arch spans, over Santiam River. $150,000.

Virginia—See "Streets and Roads."

CONTRACTS AWARDED

California—See "Streets and Roads."

Calif., Carmel—State Hy. Comn., Sacramento, 236 ft. open spandrel arch span, rein.-con. bridge with 6 girder approach spans, total 258 ft., over Rocky Creek, 17 mi. south of here, Monterey Co., to Ward Eng. Co., 315 Montgomery St., San Francisco, $62,166.

Calif., Long Beach—City Council, constructing west approaches to Ocean Ave. Bridge at Alamitos Bay, incl. piling, sheet piling, lumber, railroad ties, asphaltic concrete paving, concrete for walks, rock ballast, 52 tons steel in angles, plates, girders, etc., to J. Strona, Philadelphia and East End Aves., $44,149.

Connecticut—J. A. Macdonald, state hy. comr., Hartford, concrete, steel bridges for eliminating grade crossing, Main St., to Lee Constr. Co., Inc., 133 Southampton St., Roxbury, Mass., $95,918. Noted Apr. 4.

Illinois—State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, bridges on Route 18, Sect. 88-B Cook Co., to Deckert & McDowell, 53 West Jackson Blvd., Chicago, $78,083—Route 104, Sect. 142-B Sangamon and Christian Counties, to Koss Constr. Co., 205 Old Col. Bldg., Des Moines, Ia., $21,277—Route 104, Sect. 142-C Sangamon Co., to S. G. Cool Co., 130 North Wells St., Chicago, $3,592 — Route 74, Sect. 102-V-B Stephenson Co., to Sheppert Eng. Co., Belvidere, $15,600. Grand total $118,552. Noted Jan. 21 and Feb. 25.

Indiana—State Hy. Comn., Indianapolis, to Vincennes Bridge Co., Vincennes, 78 ft. span steel bridge, Contr. 497, $9,577, est. $14,170; one 32 ft. and one 40 ft. span rein.-con. girder bridges, Contr. 496, $12,041 est. $18,441, all Knox Co.—to **O. E. Nichols, Hebron, one 40 ft.** span rein.-con. girder bridge, one 96 ft. span steel truss bridge, Contr. 485 Laporte Co., $19,300 est. $27,982—to C. Cook, Laporte, 40 ft. span, rein.-con.arch bridge, Contr. 486 Marshall Co., $5,785 est. $9,012—to J. C. Jarrett, Lynn, 24 ft. span rein.-con. girder bridge, 30 ft. span rein.-con. arch bridge, Contr. 494 Ripley Co., $9,514 est. $14,243—to E. R. Campbell, Sandborn, two 24 ft. span and one 80 ft. span rein.-con. arch bridge, Contr. 489 Carroll Co., $16,972 est. $24,163; 84 ft. span, 60 ft. span steel truss bridges, Contr. 495 Sullivan Co. $21,843 est. $31,754, one 50 ft. and three 50 ft. span rein.-con. arch bridges, Contr. 499 Floyd Co., $19,689 est. $31,140. Grand total $114,721. Noted Apr. 21.

Kentucky—See "Streets and Roads."

Maryland — State Roads Comn., G. C. Uhl, chn., Baltimore, structural steel superstructure bridge over Little Elk Creek, Contr. Ce-83-1-22 Cecil Co., to Roanoke Bridge & Iron Wks., Roanoke, Va., $6,552; sidewalk extension for existing arch bridge over Great Tonoloway Creek, Contr. W-109-611 Washington Co., to Bester, Long Co., Hagerstown, $2,209. Noted Apr. 21.

Maryland—State Roads Comn., 2,200 ft. steel, concrete bridge over South River, on Camp-Parole-Mt. Zion Rd. Contr. AA-117-77 Anne Arundel Co., incl. operator's house, steel swing span, to Empire Contg. Co., 31 South Calvert St., Baltimore, $399,470. Noted Apr. 7.

Mass., Boston—City, Dpt. P. Wks., rebuilding steel, concrete bridge over Boston and Albany R.R., Arlington St., to J. A. Singarella, Park Sq. Bldg., $41,361. Noted Apr. 14.

Mass., Fall River—City, new piling and reconstruction of Wampanoag Bridge, to Burrows & Croke, Fall River. Est. $25,000.

Miss., Greenwood—Columbus & Greenville Ry. Co., Columbus, A. T. Stovall, pres., new steel bridge over Big Sand Creek near Valley Hill, to Kansas City Bridge Co., 510 Orear-Leslie Bldg., Kansas City, Mo., $37,500. Work started.

Neb., Schuyler—Colfax Co., steel, concrete, wooden bridges during 1932, to P. Kiewit's Sons Co., Omaha Natl. Bank Bldg., Omaha. Noted Mar. 31.

O., Columbus—Franklin Co., F. L. Donnelly, clk., three 100 ft. span, rein.-con., concrete bridge on Harrisburg-Georgeville Rd., to H. J. Scott Constr. Co., 4816 Brookpark St., Cleveland, $47,773. Noted Apr. 14.

Oklahoma—State Hy. Dpt., Oklahoma City, 24 span 292 ft. rein.-con. bridge near Hammon, Custer Co., to W. R. Johnston, Weleetka, $42,856 est. $50,000; 10 span 180 ft. rein.con. bridge, near Sharon, Woodward Co., to L. S. Fisher, Woodward, $17,097 est. $25,000.

Okla., Coalgate—State Hy. Dpt., Oklahoma City, 3 span 310 ft. steel truss bridge on concrete piers, Coal Co., to Muskogee Iron Wks., Muskogee, $33,633. Est. $40,000.

Pa., Muncy—Reading Co., Reading Terminal Bldg., Phila., C. Dillenbeck, ch. engr., 320 tons structural steel for railroad bridge, to McClintic-Marshall Co., Oliver Bldg., Pittsburgh.

Pa., Pittsburgh—R. G. Woodside, controller Allegheny Co., Court House, sidewalks, concrete stairs, handrailing, lamp and trolley poles for West End North Side Bridge, 7 spans, 1,889 ft. long over Ohio River, to Hunter Steel Co., 801 Beaver Ave., N. S., Pittsburgh. $64,940.

Washington—Comrs. Cowlitz Co. (Kelso) and Clark Co. (Vancouver) Kelso, steel suspension bridge, approaches over Lewis River, to Gilpin Constr. Co., Worcester St., Portland, Ore., $36,124. Est. $41,000. Noted Apr. 21.

STREETS AND ROADS

BIDS ASKED

California—May 18, at office C. H. Purcell, engr. State Hy. Comn., Sacramento, applying seal coat to 40.3 mi. road between Conejo Grade and Calabasas, Ventura and Los Angeles Counties; fuel oil treating 24.9 mi. road between Newport and Orange-Riverside County Line and between Long Beach and Seal Beach and at Lomita, Los Angeles and Orange Counties.

Florida—May 16, by State Road Dpt., Tallahassee, B. M. Duncan, state hy. engr., clearing, grubbing, grading, drainage structures 0.884 mi. Forestry Project 3-A-1, Rd. 218, Okaloosa Co.—4 rein.-con. multiple culverts. Federal Aid Project 79-B, Rd. 4, Duval Co.—hydraulic embankment, necessary drainage structures between Sanford and Project 628 north of St. Johns River, Federal Aid Project 85, Rd. 3, Volusia and Seminole Counties.

Idaho—May 20, by G. E. McKelvey, comr. P. Wks., Boise, grading, draining, crushed gravel, surfacing 6,750 cu.yd. Yellowstone Park Hy. between Rexburg and Fremont County line, Madison Co.

Ill., Geneva—May 18, by Bd. Supervs. Kane Co., bituminous surfacing 1.171 mi. Sect. 71-1T-M.F.T. — 0.444 mi. Sect. 72-1T-M.F.T. — 0.276 mi. Sect. 73-1T-M.F.T.—0.349 mi. Sect. 79-1T-M.F.T.—0.928 mi. Sect. 87-1T-M.F.T., all 22 ft. wide. G. H. Baker, c/o State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, engr. county roads.

Ia., Algona—May 19, at office Auditor Kossuth Co., improving roads, incl. 168,175 cu.yd. gravel, 1,038,600 units overhaul, 47,200 cu.yd. stripping gravel pit.

Ia., Audubon—May 23, by City Clerk, improving streets, Alternate 1, 1,600 cu.yd. excav., 8,260 ft. Class F curb and gutter, 185 ft. Class A curb, 8,070 sq.yd. 4 in. packed gravel, 160 sq.yd. 6 in. rein.-con. paving, 240 lin.ft. sidewalks removed, also 2,450 lin.ft. 12- to 36-in. storm sewers, 25 inlets, 1 manhole, 4 bulkheads; Alternate 2, 1,800 cu.yd. excav., 10,700 sq.yd. 5 and 6 in. concrete paving, 8,425 lin.ft. integral curb, 240 lin.ft. cross walks removed, 860 lin.ft. 12- to 36-in. storm sewers, 9 inlets, 4 bulkheads. To exceed $25,000. Henningson Eng. Co., 326 State Bank Bldg., Omaha, Neb., engrs.

Ia., Clarinda—May 17, at office Auditor Page Co., grading 6.8 mi. trunk roads, incl. 161,323 cu.yd. excav., 500 cu.yd. loose rock, 147,950 sta. yd. overhaul; also constructing 3 concrete box culvert extensions.

Ia., Ft. Madison—May 18, at office Auditor Lee Co., improving 9.471 mi. roads, incl. 103,338 cu.yd. earth, 611 cu.yd. loose rock, and 538 cu.yd. solid rock excav., 68,145 sta. yd. overhaul

Ia., Grundy Center—May 16, at office Auditor Grundy Co., gravel surfacing 39 mi. roads, incl. crushing, loading, hauling 35,600 cu.yd. gravel, 327,000 units overhaul, alternate 5,400 cu.yd. Class A gravel or 4,800 cu.yd. Class A rock surfacing 6 mi. road.

Ia., Hampton — May 18, at office Auditor Franklin Co., grading 5.42 mi. roads, incl. 35,107 cu.yd. casting, 12,164 cu.yd. overhaul, graveling 21.68 mi., incl. 24,627 cu.yd. gravel, 112,301 units overhaul, 7,000 cu.yd. stripping.

Maryland—May 17, by State Roads Comn., Baltimore, G. C. Uhl, chn., gravel surfacing 2.07 mi. Contr. AA-108-74, Anne Arundel Co.—concrete paving 1.67 mi. Contr. F-190-52, Frederick Co.—0.14 mi. Contr. K-71-211 Kent Co.—macadam paving 5.17 mi. Contr. H-118-44 Harford Co.—macadam resurfacing 1.35 mi. Contr. H-144-42 Harford Co.; adv. E. N.-R. May 12.

Massachusetts—May 17, by Dpt. P. Wks., A. W. Dean, engr., State House, Boston, gravel and bituminous macadam paving 9,800 ft., hy. Rochester; rein.-con. and bitulithic concrete paving 12,460 ft. Newton.

Mass., Boston—May 16, by Dpt. P. Wks., J. A. Rourke, comr., sheet asphalt or bitulithic paving L St., South Boston. $25,000.

Michigan—May 25, by A. L. Burridge, div. engr., Cadillac, building up shoulders, 20 ft. sheet asphalt paving 20.526 mi F016-22C—1, F016-10C-4 and M016-10C-5, Cheboygan Co., for State Hy. Comn., Lansing.

Mich., Flint—May 17, by Genesee Co. Rd. Comn., Court House, grading, drainage structures, rein.-con. paving 15½ mi. Roads 139, 140, 142, 143, 145, 144, 20 ft.

Minnesota—May 17, by State Hy. Comn., St. Paul, grading 1.1 mi. State Project 3—9.1 mi. State Project 6-55—7 mi. State Project 8-48, Sect. 2, Div. A—7.9 mi. F.A.P. 432A—4.3 mi. S.P. 26-23 Sect. 1—16 mi. S.P. 26-23, Sect. 2—11.3 mi. S.P. 30-22, Div. A—11.9 mi. S.P. 34-27—6.4 mi. S.P. 35-34—403,000 lin.ft. guard rail material and installation, resetting 87,400 lin.ft. various state projects.

Minn., St. Paul—May 17, by City, paving University Ave. and widening, paving roadway in Snelling Ave. $25,000. W. N. Carey, city engr.

Mo., St. Louis—Bd. P. Serv., City Hall, withdrew from April 26 letting asphalt concrete paving 1,500 sq.yd. Putnam St. $4,200 — 3,500 sq.yd. Catalan St., $11,300—3,800 sq.yd. Macklind Ave., $12,240. Will readvertise. Noted Mar. 31.

Mo., St. Louis — May 24, by Bd. P. Wks., City Hall, grading, concrete paving 12,000 sq.yd. alleys in City Blocks 1354, 4068E, 4238, 5317, 5342, and 5689. W. W. Horner, city engr.

Mo., St. Louis—May 31, by Bd. P. Serv., City Hall, asphalt on concrete repaving 800 sq.yd. 20th St., $2,400—1,800 sq.yd. 15th St. $6,600—3,400 sq.yd. Wells Ave., $12,680—vibrolithic paving 5,300 sq.yd. Veronica Ave., $17,360—1,610 sq.yd. Annetta St., $6,600—1,585 sq.yd. Partridge Ave., $6,240. W. W. Horner, city engr.

N. J., Columbus—May 23, by Mansfield Twp. Com., improving 2.37 mi. Kinkora-Hedding Rd. and 2.45 mi. Hedding-Jacksonville Rd. Smith & Braun, 127 Main St., Mount Holly, engrs.

New Mexico—May 25, by W. R. Eccles, engr. State Hy. Dpt., Santa Fe, grading, drainage structures 18.863 mi. F.A.P. 176-B, Dona Ana Co.—grading, drainage structures, base course surfacing 1.354 mi. F.A.P. 147-B, reopened, 147-E, reopened and 149 Mod.—grading, drainage structures, 6 treated timber bridges, 1 concrete, steel bridge and crushed base course surfacing 10.526 mi. F.A.P. 101-A, both San Juan Co.

New York—June 2, by A. W. Brandt, comr. Hys., Albany, constructing hys. in Orleans and St. Lawrence Counties; reconstructing hys. in Cattaraugus, Chemung, Orange, Suffolk and Wyoming Counties; adv. E. N.-R. May 12.

N. Y., Buffalo—May 20, by W. A. Rathman, comr. P. Wks., asphalt paving streets from July 1 to June 30, 1933.

N. Y., Mount Vernon—Bd. Supervs. Westchester Co., Court House, White Plains, soon takes bids widening, paving South 5th Ave. from 6th St. to New York City line. $95,000. J. Downer, Court House, White Plains, co. engr.

N. Y., New York—May 16, by S. Levy, pres. Manhattan Boro. Municipal Bldg., replacing sidewalks and curbs when and where directed during 1932, Manhattan Boro.

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Streets and Roads (Continued)

N. Y., New York—May 19, by S. Levy, pres. Manhattan Boro, Municipal Bldg., laying, relaying sidewalks, curbing, when and where directed during 1932; furnishing, delivering 1,000 lin.ft. 6 in. granite corner curb (cut to 12 ft. radius).

N. Y., St. George—May 18, by J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous concrete repaving Bennett St., Bement and Bard Aves.

North Carolina—May 24, by State Hy. Comn., grading, traffic bound macadam paving 71,040 sq.yd. Project 7331, Route 90 between Mocksville and Fork Creek Church, toward Lexington, Davie Co. L. R. Ames, Raleigh, engr.

O., Cincinnati—May 20, by Comrs. Hamilton Co., grading, 400 ft. corrugated sewer pipe, asphaltic macadam resurfacing 9,000 sq.yd. Symmestown Rd. $18,285; 11,000 sq.yd. Van Zandt Rd. $21,515. E. A. Gast, Cincinnati, co. surv.

O., Dayton—May 17 by Comrs. Montgomery Co., Court House, surface treating roads, 317,536 sq.yd. 1 qt. M.T. plus 20 lb. pea gravel per sq.yd., 62,624 sq.yd. 1 qt. C.T. plus ½ gal. M.T. plus 40 lb. pea gravel per sq.yd., 1,000,000 sq.yd. 1 qt. M.T. plus 20 lb. pea gravel, spot work, 10,000 gal. M.T. applied. $65,000. W. O. Pease, Court House, co. surv.

Oregon—May 18, by State Hy. Comn., Salem, grading, paving Pacific Hy. N. from Salem to Brooks—approaches for Dillon Overcrossing on Columbia River Hy.—grading 2 mi. Neah-Kak-Nie-Arch Cape Section, Oregon Coast Hy. —macadamizing 13 mi. Newport-Waldport Sect. Oregon Coast Hy.—10 mi. Corvallis-Newport Rd. —1 mi. Newport Post Office-Ferry Landing Sect. —2.6 mi. Newport-Corvallis Hy.—5 mi. Terrebourne-Redmond Sect. Dalles-California Hy.—constructing 2.2 mi. Cheshire-Harpole School Sect. Siuslaw Hy.—3 bridges on Umpqua Hy.—oiling 9.6 mi. Mitchell-Grant Co. line Rd.—widening Deschutes Tunnel portal on Columbia River Hy.—oiling 2.9 mi. Yachats-Lane Co. line Sect. Oregon Coast Hy. $1,000,000.

Utah—May 16, by State Road Comn., Salt Lake City, grading, graveling 14,300 cu.yd. Salt Lake-Boise Rd., Boxelder Co. H. S. Kerr, state hy. engr.

Virginia—May 24, by State Hy. Dpt., Richmond, grading, drainage structures, clearing, grubbing, sheet or rock asphalt surfacing 8 mi. Franklin Rd., Route 12, Project F-20-CW Southampton Co.—macadam surface treating or concrete surfacing 4 mi. Buena Vista-Lexington Rd., Route 14, Project F-592-A1 Rockbridge Co.—clearing, grubbing, grading, drainage structures, top soil surfacing 9.2 mi. Turbeville Rd., Route 44, Project F-752-AB1 Halifax Co.—clearing, grubbing, grading, drainage structures 4.7 mi. Holston River-Russell Rd., Route 110, Project F-661-AB1, incl. bridge over Little Moccasin Creek, Russell and Washington Counties—five 35 ft. and three 32½ ft. steel beam spans and one 115 ft. steel swing span bridge over Bennetts Creek, Route 503, Project S-652-B1 Nansemond Co.—three 30 ft. rein.-con. beam and one 75 ft. steel truss span bridge over Little Nottaway River, Route 48, Project S-769-B1 Nottaway Co.—five 30 ft. span rein.-con. beam and one 90 ft. steel truss span bridge over Nottaway River, Route 48, Project S-769-B2 Lunenberg Co. H. G. Shirley, hy. engr.; adv. E. N.-R. May 12.

Wash., Everett—Snohomish Co. bids in June, grading, surfacing Lowell-Larimer's Corner Rd., $39,000. R. Alverson, Everett, co. engr.

Wash., Kelso—Comrs. Cowlitz Co. bids about May 25, extending 2 mi. Permanent Hy. 19. $28,000. F. Cramer, Kelso, co. engr.

West Virginia—May 17, by State Road Comn., Charleston, **(P. means Project)** surface treating 10.6 mi. Danville-Lincoln Co. Line Rd., Projects 2175, 3424 and 3425 Boone Co.—11.2 mi. Sutton-Nicholas Co. Line Rd., Projects 3426-B, and 159-E Graxton Co.—18 mi. Branchland-Harts Rd., Projects 2164, 3098 and 3169 Lincoln Co. —10.2 mi. Echo-Fort Gay Rd., P. 3369-A and B Wayne Co.—surface treating and stone base 2.9 mi. Rock Creek-Foster Rd., P. 3529 Boone Co.—1.1 mi. Simmons-Dolph Rd., 3040 Mercer Co.—surface retreating 5.7 mi. Moorefield-Durgon Rd., P. 3148 Harvey Co.—concrete surfacing 4.1 mi. South Malden-Marmet Rd., F.A.P. 193 Kanawha Co.—traffic bound base 12 mi. Yawkey-Alum Creek Rd., P. 3463-A and B Lincoln Co.—retread or mix surfacing 23.7 mi. Marlinton-Mace Rd., Project 79,141 and 3235 Pocahontas Co.—grading, drainage structures, shale surfacing 6.5 mi. Brandywine-Virginia State Line Rd., P. 3502 Pendleton Co.—grading, drainage structures 6 mi. Parsons-St. George Rd., P. 3495 Tucker Co. E. D. Yewell, engr.

Wisconsin—May 17, by State Hy. Comn. and Hy. Com. Columbia Co., Madison, concrete paving 6.654 mi. Milwaukee-Jefferson-Madison Rd., U. S. Hy. 18, F.A.P. 268-D, Dane and Jefferson Counties—approaches 0.16 mi. Bay Shore Grade Separation, U. S. Hy. 141, S.A.P. 2035, Milwaukee Co.—constructing Lewis, Schlieve, Fox River, and Trip Bridges, Columbia Co.

Wisconsin—May 17, by State Hy. Comn., Capitol, Madison, constructing Mississippi River Bridge Approach, Maintenance Project M-50, U. S. Hys. 16 and 61, LaCrosse Co.

Wisconsin—May 18, by State Hy. Comn. and Hy. Comrs. Dane, Green, Rock and Sauk Counties, Madison, bituminous paving 9 mi. and graveling 9 mi. Cashton-Reedsburg Rd., S.T.H. 33, F.A.P. 175, Sauk Co.—bituminous surfacing 1.23 mi. Portage-Baraboo Rd., S.T.H. 33, F.A.P. 177, Sauk Co. — 0.596 mi. Schultz Overhead Approaches, U. S. Hy. 16, S.A.P. 1418, Columbia Co. — graveling 9,000 cu.yd. Deerfield-Columbus Rd., S.T.H. 73, Dane Co.—5,000 cu.yd. from Baraboo easterly—1,800 cu.yd. Columbia Co. line westerly—1,500 cu.yd. from Spring Green Northerly, all foregoing Sauk Co. —7,500 cu.yd. Columbus-Randolph Rd., S.T. Hy. 73, Dodge Co.—800 cu.yd. Evansville-Albany Rd., S.T.H. 59, Rock Co. — repairing gravel shoulders Dane Co.—crushed stone paving 5,000 cu.yd. New Glarus Westerly Rd., Green Co.

Wisconsin—May 19, by State Hy. Comn., and Hy. Coms. Calumet, Brown and Outagamie Counties, Nicolet Bldg., Green Bay, concrete surfacing 146,697 sq.yd. Algoma-North County Line Rd., S.T. Hy. 42, F.A.P. 391-B and 55 Reopened, Kewaunee Co., and Forestville-Sturgeon Bay Rd., S.T. Hy. 42, F.A.P. 391-B and 55 Door Co.—126,392 sq.yd. Abrams-North County Line Rd., U. S. Hy. 141 F.A.P. 348-D and 257 Reopened, Oconto Co.—133,100 sq.yd. Abrams-North County Line Rd., U. S. Hy. 141, F.A.P. 348-D and South County Line-Crivitz Rd., Marinette Co. — 140,315 sq.yd. Brothertown-Sherwood Rd., S.T. Hy. 55 S.A.P. 3389, Calumet Co.—43,587 sq.yd. Shawano-Tilleda Rd., S.T.H. 29, F.A.P. 441-C, F and 57 Reopened, Shawano Co.—grading, bridging 9.552 mi. South County Line-Crivitz Rd., U. S. Hy. 141 F.A.P. 348-C and 226, Marinette Co.—constructing Peshtigo River Bridge, U. S. Hy. 141 F.A.P. 348-C, Marinette Co.—sodding 0.287 mi. Appleton Subway and approaches, U. S. Hy. 10, S.A.P. 3443, Outagamie Co.—0.26 mi. Shawano Avenue Subway and approaches, S.T.H. 29, S.A.P. 3406, Brown Co.

Wisconsin—May 20, by State Hy. Comn., 213 South Barstow St., Eau Claire, furnishing, applying 70,000 gal. asphalt Type C 60-70 Clark Co.; 358,000 gal. Pierce Co.; 136,000 gal. Pepin Co.; and 218,000 gal. St. Croix Co.

Ont., Hamilton—See "Contracts Awarded."

Ont., Picton—See "Contracts Awarded."

Ont., Stratford—See "Contracts Awarded."

CONTRACTS AWARDED

Arizona—State Hy. Comn., Phoenix, grading, placing subgrade stabilizer on 19.25 mi. road in Navajo Co., to All Arizona Eng. & Constr. Co., Clifton, $125,520.

California—State Hy. Comn., Sacramento, grading, concrete surfacing 6.4 mi. Solan Co., to D. McDonald, 204 23rd St., Sacramento, $185,483—treating with fuel oil and asphaltic road oil 80 mi. road El Dorado, Alpine and Amador Counties, to C. F. Frederickson & Co., Lower Lake, $19,583—treating with fuel oil as dust palliative 50 mi. roads in Fresno and Kings Counties, and 15.5 mi. road in Madera Co., to Oilfields Trucking Co., P. O. Box 2168, Taft, $7,632 and $3,849 respectively. Grand total $216,547. Noted Apr. 14.

California — C. H. Purcell, engr. State Hy. Comn., Sacramento, improving 4.9 mi. state hy. between La Guana Beach and Dana Point, Orange Co., incl. 286,600 cu.yd. excav., 21,015 cu.yd. pavement in structures, 86,000 sq.yd. preparation sub-grade, bridges, 64,000 lb. reinforcing steel, to Daley Corp., 4431 Boundary St., San Diego, $282,682. Noted Apr. 14.

Calif., Salinas—C. F. Joy, clk. Monterey Co., grading, paving portions Salinas-Monterey Rd., to W. A. Dontanville, P. O. Box 544, $13,625.

Connecticut — J. A. Macdonald, state hy. comr., Hartford, rein.-con. paving 18,217 ft. Stamford, to Clarke Barone Co., 595 Legion Ave., New Haven, $100,578—2½ in. bituminous on 6½ in. broken stone base paving 3,815 ft. Stratford, to D. V. Frione & Co., 505 Grand Ave., New Haven, $48,613—concrete encased girder bridge, approaches, Norwich, to Holbrook Co., Westbrook, $37,290—waterbound macadam paving 8,285 ft. hy. Portland, to L. Suzio Constr. Co., State and Brook Sts., Meriden, $36,439—2½ in. bituminous macadam on 7½ in. broken stone base paving 8,621 ft. West Hartford, to N. Cena, 36 Brown Pl., Waterbury, $25,593—waterbound macadam paving 17,154 ft. Weston, to T. F. Foley Co., Inc., 77 Day St., South Norwalk, $58,751. Grand total $307,264. Noted Apr. 28.

D. C., Wash.—District Comrs., District Bldg., concrete roadways and sheet asphalt resurfacing, to Union Paving Co., 1626 Arch St., Phila., Pa. $69,260 and $96,244 respectively—2nd group concrete roadways, to Highway Eng. & Constr. Co., 7th and T Sts. N. E., $84,237—concrete alleys, to P. T. McDermott Co., Inc., 1014 Wisconsin Ave. N. W., $33,244—concrete sidewalks, to E. B. Donaldson Bros., 800 Rhode Island Ave. N E., $20,290—grading, to W. F. Brenizer, 1501 South Capitol St., $11,050. Grand total $314,325. Noted Apr. 18.

Idaho—G. E. McKelvey, comr. P. Wks., Boise, grading, crushed rock paving 7.014 mi. Cama Co., to Utah Constr. Co., Ogden, $41,150; 0.393 mi. Idaho and Nez Perce Counties, to Triangle Constr. Co., Boise, $21,730. Noted Apr. 7.

Idaho—G. E. McKelvey, comr. P. Wks., Boise, grading, draining, crushed rock surfacing 7.191 mi. Ahsahka-Kendrick Hy., Clearwater Co., to G. F. Price, Dayton, Wash., $39,748; 9 concrete structures on Bear Lake Hy., Bear Lake Co., to Wheelwright Constr. Co., Ogden, Utah, $9,750. Noted Apr. 28.

Illinois—State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, to J. C. O'Connor & Sons, 2104 Minor Ave., Ft. Wayne, Ind., paving Route 122, Sect. 126-X Tazewell Co. $91,110; Route 121, Sect. 110 Logan Co. $86,608; Route 121, Sect. 109 Tazewell and Logan Counties, $102,022—to J. Kesl & Sons, Edwardsville, Route 150, Sect. 132 Union Co., $113,933—to Trompeter Constr. Co., Peru, Route 92, Sect. 140 Bureau Co. $114,459—to J. Mackler & Co., 86 Illinois St., Chicago Heights, $14,6 to Booth & Gilchrist, Gardner, Route 4, S 7-X $12,207; Route 4, Sect. 7-1, $6,044, Livingston Co.—to Cameron, Joyce & Keokuk, Ia., Route 104, Sect. 142 Christian Sangamon Counties, $82,878—to Henkel Co Co., Mason City, Ia., Route 119, Sect. 104 Lean and Champaign Counties, $188,962— Booth & Olson, Grain Exch. Bldg., Sioux Ia., Routes 116 and 116-A, Sect. 103 Wood Co. $89,179—to Union Constr. Co., 200 York St., Des Moines, Ia., Route 92, Sect. Bureau Co. $100,799—to S. J. Groves & Co., Libertyville, Route 42-A, Sect. C-Y Co. $196,208. Grand total $1,199,041. N Jan. 21 and Feb. 25.

Ill., Monmouth — Warren County Bur Roads, grading, drainage structures, gravel facing Sects. 7 to 10 (inclusive) M.F.T., C. L. Swords, Peoria, $43,470. Noted Apr. 1

Ill., Peoria—Bureau County Roads, Peoria Court House, guttering, walls, concrete pav 42,228 sq.yd. Sect. Z-2-15d, S.A.R. 11 and S Z-9, to Jansen & Schaefer, Peoria, $89,682.

Ill., Tuscola—Bureau County Roads Doug Co., Court House, concrete surfacing 17,2 sq.yd. Sect. 6-M.F.T., to A. F. Adams, Clint Ind., $32,707.

Ill., Wheaton—DuPage Co., concrete surfa ing 32,350 sq.yd. State Aid Route 17, Sec 66-15d, to E. D. Otto, 501 Rogers St., Down Grove, $71,944.

Indiana—J. J. Brown, dir. State Hy. Comn Indianapolis, grading, drainage structures, con crete surfacing 58,066 sq.yd. Rd. 41, Federal Aid Project 200, incl. reinforced steel bars 59,850 lb. pavement, 16,842 ft. metal shoulders 24,012 ft. guard rail, Vanderburgh Co., to W. Vogel, 506 Inland Bank Bldg., $59,996. Est $71,308. Noted Mar. 24.

Indiana—State Hy. Comn., Indianapolis, to L. Marsch, Morrisonville, Ill., furnishing, applying road oil, liquid asphalt and tar on roads. Invitation 790 $17,937; Invitation 791 $21,511 Invitation 792 $16,285; Invitation 793 $23,501 Invitation 794 $24,880—to Lake States Constr. Co., Morenci, Mich., Invitation 788 $43,867, Invitation 846 $33,129—to Ohio Road Impt. Co., 28 East Broad St., Columbus, O., Invitation 845 $38,806; Invitation 847 $46,954—to Seneca Petroleum Co., 439 West 33rd St., Chicago, Ill., Invitation 873 $57,780; Invitation 859 $17,454; Invitation 860 $17,343, Invitation 863 $20,986, Invitation 861 $22,013; invitation 862 $21,256—to L. P. Cavett Co., Lockland, O., Invitation 844 $19,386; Invitation 872 $33,873—to G. W. Tayler Constr. Co., Laporte, Invitation 871 $16,988—to E. A. Mariani Co., Inc., Richmond, Invitation 848 $29,823—to Independent Oil Co., Paris, Ill., Invitation 789 $27,048. Grand total $550,820. Noted Apr. 7 and 14.

Indiana—State Hy. Comn., Indianapolis, grading, drainage structures, concrete surfacing 69,782 sq.yd. Rd. 32, F.A.P. 251-A and B, Hamilton Co. and 74,906 sq.yd. Rd. 32, F.A.P. 251-C, Madison and Hamilton Counties, to Indiana Asphalt Paving Co., 2810 Columbia Ave., Indianapolis, $79,246 and $78,744 respectively est. $109,577 and $102,428 respectively—improving 0.281 mi. Rd. 40, Project 6-C1, Putnam Co., to Sweet & Wright, Greencastle, $4,886 est. $7,001—0.153 mi. Rd. 41, F.A.P. 78-E1, Sullivan Co., to J. A. Shepherd, Terre Haute, $3,832 est. $4,170. Grand total $166,708. Noted Mar. 24.

Ind., Anderson — Madison Co., constructing John D. Kiefer Rd., to Midwest Asphalt Paving Co., Kokomo, $11,352 est. $14,219; A. E. Mills Rd., to Lawrence Jenkins, Frankfort, $10,991 est. $15,450. Noted Apr. 7.

Ind., Laporte—Laporte Co., concrete surfacing Herbert R. Misener Rd., to A. W. Smith, Laporte, $63,734 est. $87,180; 1.14 mi. Howard C. Crosby Rd., to Cook Bros., Laporte, $47,096 est. $56,178. Noted Apr. 27.

Ia., Algona—Kossuth Co., grading 53 mi. secondary roads, to A. A. Mettler, Marion, S. D., $12,430. Noted Apr. 14.

Ia., Creston—Union Co., grading 10 mi. trunk and local roads, placing culvert pipe, furnishing, placing c.i. pipe, placing corrugated pipe, furnishing, hauling gravel, 3 I-beam bridges, 15 concrete box culverts, to Sash & Rutledge, Creston, $7,025; to E. K. Wilson, Omaha, Neb., $18,586; to Duvall & McKinney, Logan, $3,990; to L. J. Peters, 3400 Carlisle Rd., Des Moines, $3,261; to Peru Stone Co., Peru, $274; and to C. L. Reid, Lorimor, $920. Grand total $34,056.

Ia., Davenport—Scott Co., grading, drainage structures, gravel surfacing 22.33 mi. roads, to Jenner & Lister, Davenport, $25,385; 2 bridges, in Allens Grove Twp., to W. D. Phelan, Davenport, $11,698.

Ia., Iowa City—Johnson Co., grading, drainage structures 8.29 mi. local and 3.25 mi. trunk roads, to J. P. Abramson Constr. Co., 916 Hubbell Bldg., Des Moines, $14,621; stone surfacing 19 mi. trunk roads, to Hawkeye Material Co., Iowa City, $31,602. Noted Mar. 31.

Ia., Vinton—Benton Co., gravel or crushed stone surfacing 141.85 mi. roads, to M. O. Weaver, Iowa Falls, $54,019; to Albert Mulvenna, Edgewood, $21,241; to Larimer & Shaffer, Inc., Cedar Rapids, $37,434; to J. G. Vernon, Marion, $3,900. to Dewies & Whitney, Springville, $12,856. Grand total $129,450.

Ia., Washington—Washington Co., gravel surfacing 12.45 mi., and maintenance gravel surfacing 17.06 mi. roads, to Dane Co., Iowa City, $30,260—grading 9.022 mi., to G. H. Lowe, Cedar Rapids, $23,577—19 concrete box culverts and 2 culvert extensions, to Rick Constr. Co., Washington, $19,050—120 x 20 ft. high truss bridge with four 40 ft. approach spans,

Streets and Roads (Continued)

to Iowa Bridge Co., 1901 Easton Blvd., Des Moines, $18,995. Grand total $91,822.

Ia., Winterset—Madison Co., grading Project F-345, to Morgan Constr. Co., 2915 North 16th St., Omaha, Neb., $65,389.

Kansas—State Hy. Comn., Dodge City, to San Ore Constr. Co., McPherson, bituminous material surfacing 0.86 mi. P-154-1-F.A.P. 236-B $1,565; 8.423 mi. P. 154-L-K.P. 1335 $15,085; 4.156 mi. P. 54-13, K.P. 1332 $7,401, all Ford Co.; 3.766 mi. P. 54-6-K.P. 1334 $7,124; 12.309 mi. P. 54-6, F.A.P. 406-A $21,371, both Meade Co.; 5.548 mi. Clark Co. $10,596; mineral aggregate resurfacing 5.24 mi. Ford Co. $5,240; sand gravel surfacing 22.277 mi. Hodgeman Co. $6,422 — to D. G. Hardman, Alton, bituminous material surfacing 11.034 mi. Haskell Co. $19,782; 7.41 mi. Finney Co. $15,671; 7.964 mi. Morton Co. $16,291; 13.831 mi. Stevens Co. $28,739; 11.999 mi. P. 96-10, F.A.P. 398-C Ness Co. $25,149; 5.205 mi. same road, Sect. D $10,767; 12.962 mi. Lane Co. $25,958; mineral aggregate surfacing 6 mi. Haskell Co. $2,670; 15.302 mi. P. 50-3-K. 1212 $7,088; 10.369 mi. P. 50-K. 1213 $4,070, both Kearney Co.; 16 mi. Hamilton Co. $5,568; resurfacing 25.198 mi. Gray Co. $7,052; 15 mi. Scott Co. $5,940; repairing bridge in Gray Co. $4,689—to D. G. Hansen, Logan, 5 mi. P. 54-1-7576 $1,250; 2.75 mi. P. 83-1-7577 $666—to B. Metzger, Ozawkie, 17.312 mi. Ford Co. $3,737. Grand total $259,891.

Kan., Topeka—Grading, curbing, guttering, concrete paving East 3rd St. from Chandler to Lawrence Sts., grading, concrete paving 6 alleys, to J. E. Kirkham, 1410 Pembroke Ave., $15,191. Noted Apr. 21.

Kentucky—State Hy. Dpt., Frankfort, grading, drainage structures, using 1st class rein.-con. pipe 2.283 mi. Morgantown-Caneyville Rd., S.P. 83-A2G Butler Co., to Campbell & Co., Bowling Green, $21,489—grading, drainage structures using 1st class D.S. vitr. pipe, 9.013 mi. Flemingsburg-Morehead Rd., S.P. 68 B3G Fleming Co. and 3.254 mi. Morehead-Flemingsburg Rd., F.R. 69-A-G Rowan Co., to Phelps Constr. Co., Somerset, $79,776 and $46,069 respectively—grading, drainage structures using double strength vitr. pipe, 3.417 mi. West Liberty-Sandy Hook Rd., F.R. 59-A-G Morgan Co., to H. H. Miller Constr. Co., Jackson, $54,146—grading, drainage surfacing, using concrete pipe, 10.575 mi. Claysville-Mt. Olivet Rd., S.P. 172-B-G Robertson Co., to F. J. Snider, Frankfort, $44,134—grading, drainage structures, traffic bound limestone surfacing, using 1st class rein.-con. pipe 3.462 mi. Franklin-Tennessee State Line Rd. F.A. 239-A-G-S Simpson Co., to R. H. Waters, Boston, $25,464—traffic bound limestone surfacing 4.659 mi. Cadiz-Eddyville Rd., 18 ft. F.A. 232-C-S Trigg Co., to D. W. Dickinson Co., Trenton, $12,482—120 ft. steel span bridge over Licking River on Carlisle-Flemingsburg Rd., S.P. 43-BB. Nicholas Co., to International Steel Co., Evansville, Ind., $7,492. Grand total $291,052.

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, asphalt paving 1 mi. Contr. BC-117-72 Baltimore City, to American Paving & Contg. Co., 2525 Montebello Ave., Baltimore, $35,798. Noted Apr. 21.

Maryland—State Roads Comn., Baltimore, G. C. Uhl, chn., concrete paving 1.6 mi. Contr. CO-75-22 Caroline Co., to Phillips Bros., Salisbury, $29,086; 3.28 mi. Contr. G-66-64, Garrett Co., to Roberts Paving Co., Salisbury, $50,051. Noted Apr. 21.

Massachusetts—Dpt. P. Wks., A. W. Dean, engr., State House, Boston, bituminous macadam paving 39,391 ft. hy. Middleboro, Rochester and Wareham, to Eastern Contg. Co., Quincy, $202,526. Noted Apr. 28.

Mass., Medford—Metropolitan Dist. Comn., 20 Somerset St., Boston, resurfacing Fellsway West between Cherry and Fulton Sts., to C. & R. Constr. Co., 75 Bradeen St., Roslindale, $39,024. Noted Apr. 21.

Minnesota—State Hy. Comn., St. Paul, concrete paving 158,570 sq.yd. S.P. 3-53, Sect. 2, F.A.P. 27C, and S.P. 3-53, Sect. 1, F.A.P. 27B, to Western Asphalt Paving Corp, 2100 East 4th St, Sioux City, Ia., $174,523—158,690 sq.yd. S.P. 14-25 Sect. 2, Div. B, F.A.P. 425B and S.P. 14-25 Sect. 1, Div. A, FA.P. 425A, and 136,580 sq.yd. S.P. 14-25-1, Div. B, F.A.P. 425A, to Nolan Bros., 18 North 2nd St., Minneapolis, $157,671 and $134,279 respectively—109,667 sq.yd. S.P. 15.33, Sect. 1, F.A.P. 72 and S.P. 15-33, Sect. 3, Div. A, F.A.P. 196, and 167,436 sq.yd. S.P. 15-33-3, Div. B, F.A.P. 196, S.P. 15-33, Sect. 2, F.A.P. 417B, and S P. 15-33 Sect. 2, to Woodrich Constr. Co., 148 Hodgson Bldg, Minneapolis, $109,254 and $173,501 respectively. Grand total $749,228. Noted Apr. 28.

Minn., St. Paul—C. A. Carlson, city purch. agt., grading, paving Pleasant Ave. between St. Clair and Victoria Sts., to Thornton Bros. Co., 1343 Dayton Ave., $34,800. Noted Apr. 7.

Mo., St. Louis—Bd. P. Serv., City Hall, to Asphalt Paving Co. of St. Louis, 1329 Sublette Ave., asphaltic concrete paving 1,200 sq.yd. Magnolia Ave., $3,218; 3,800 sq.yd. Macklind Ave., $11,899; 3,000 sq.yd. Madison St., $8,603 —to Granite Bituminous Paving Co., Railway Exch. Bldg., warrenite bitulithic paving 865 sq.yd. 11th St., $6,648. Grand total, $30,368. Noted Mar. 31.

N. Y., Brooklyn—H. Hesterberg, pres. Brooklyn Boro, Boro Hall, to J. and M. Moran Excavation Co., 413 Sterling Pl., grading Caton Ave. $6,005—to C. Bennett Impvt. Co., 465 Fenimore St., Sheffield Ave. $10,799—to C. T. J. Realty Co., 26th St. $4,310; Dumont Ave. $1,205; East 56th St. $1,565; East 12th St. $4,65—to Downs & Downs, 10007 4th Ave., granite paving Coffey St. $6,770—to D. J. McCoy Asphalt Paving Co.; Avenue U and East 57th St., asphalt paving Oliver St. $3,333; 11th Ave. $1,977; 12th Ave. $2,382; East 3rd St. $3,946—to Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., Rockaway Parkway $11,925. Grand total $58,871. Noted Mar. 31.

N. Y., Long Island City—G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., to Columbia Eng. Co., 404 Bway., New York, sheet asphalt paving Illside Ave., $173,607—to Cleveland Trinidad Paving Co., Flushing, 103rd St. $6,016; 59th St. $3,742; Liberty Ave., $34,225 —to Palmo Constr. Co., 87-16 Liberty Ave., Woodhaven, grading Van Horn St., $1,679—to W. Probeck, 70-17 Ridgewood Pl., Ridgewood, 63rd Ave. $1,032—to Pomonok Asphalt Paving Co., 1246 Grand Ave., Brooklyn, sheet asphalt paving Maurice Ave. $18,748—to New York Cut Cast Stone Co., 1219 Oak Point Ave., New York, concrete railing Cypress Hills Rd., $10,038. Grand total $249,087. Noted Mar. 24.

O., Columbus—Removing parkways, widening street to 80 ft., grading, drainage, curbing, brick guttering, Mexican asphalt paving 4,700 ft. East Broad St. from 4th St. to Parsons Ave., 80 ft., to B. F. Patterson, 999 West Goodale St., $41,421.

Oklahoma—State Hy. Dpt., Oklahoma City, to Kodane Constr. Co., Frederick, grading, drainage structures 4.81 mi. State Hy. 34, $22,163, est. $25,000, 7.81 mi. State Rd. 34, $25,107 est. $30,000, both Custer Co.; 4.61 mi. Roger Mills Co., $16,091 est. $25,000—to Hyde Constr. Co., Enid, 6.3 mi. Pontotoc Co., $121,314 est. $130,000. Grand total $184,674. Noted Apr. 28.

Oklahoma—State Hy. Dpt., Oklahoma City, grading, drainage structures 4.1 mi. State Hy. 34 north of Hammon, Custer Co., to C. Merveldt, El Reno, $18,750 est. $25,000—3.91 mi. State Hy. 34 between Sharon and Woodward and 7.3 mi. same road south of Woodward, Woodward Co., to Allhands & Davis, Joplin, Mo., $17,663 and $21,352 respectively est. $25,000 each, all 32 ft. wide. Grand total 57,765.

Oregon—State Hy. Comn., Portland, to J. C. Compton, McMinnville, bituminous paving 32.5 mi. Benton and Umatilla Counties, $18,750; bituminous macadam oiling Berry Creek-Florence Sect. Oregon Coast Hy., Lane Co., $22,339; Hendricks-Bridge-South Fork Sect. McKenzie Hy. $34,443—to Schmeer & Williams, Portland, crushed rock in stock piles, Morrow and Gilliam Counties $12,766—to Wren & Greenough, Chamber of Commerce Bldg., Portland, bituminous macadam and oiling Boyer Valley Junction Sect. Salmon River Hy. and Dolph-Sheridan Sect. McMinnville-Tillamook Hy., Polk and Yamhill Counties, $136,765—to Standard Asphalt Paving Co., Chronicle Bldg., Spokane, Wash., grade widening, resurfacing, bituminous macadam paving Pendleton-Emigrant Hill Sect. Old Oregon Trail, Umatilla Co., $74,117—to Fischer Bros., Oregon City grading 1.99 mi. New Era-Canby Sect. Pacific Hy., Clacamas Co., $30,723 — to Johnson Bros. Co., Klamath Falls, 3.62 mi. Trout Creek-Soda Fork Sect. Santiam Hy., Lnin Co., $60,318 — to R. H. Jones, Baker, 3 bridges Baker Co., $3,481—to T. Lillebo, Reedsport, bridge over Paradise Creek, Douglas Co., $15,206—to Barham Bros., Salem, bridge over railroad tracks, Multnomah Co., $8,710; widening bridge on Columbia River Hy., Wasco Co., $11,252. Grand total $428,870. Noted Apr. 21.

Pennsylvania—State Hy. Dpt., Harrisburg, waterbound macadam surfacing 61,375 sq.yd. Route 237, Sect. 2 Ringgold and Red Bank Twps., Jefferson and Armstrong Counties, and 76,237 sq.yd. Route 380, Sect. 2, Highland Twp., Elk Co., to N. B. Putnam Co., 204 Old Citizens Bldg., Ft. Wayne, Ind., $117,642 and $130,971 respectively; 26,878 sq.yd. Route 648, Sect. 2, Bonton, Nicholson and Clinton Twps., Lackawanna and Wycoming Counties, to F. Feraco, 3632 North Lawrence St., Phila., $105,449. Grand total $354,062. Noted Mar. 17.

Pennsylvania—State Hy. Dpt., Harrisburg, rein.-con. surfacing 53,954 sq.yd. Route 709, Sect. 1 Lahoeuf and Union Twps., Millvillage Boro, and 13,076 sq.yd. Route 88, Sect. 4, Corry City, both Erie Co., to Baldwin Bros., Union Trust Bldg., Cleveland, O., $138,763 and $35,109 respectively—waterbound macadam surfacing 31,194 sq.yd., Clarion Co., to Harrison Constr. Co., 2101 Sidney St., Pittsburgh, $55,713—87,665 sq.yd. Jefferson Co., to E. H. Cannon, West Elizabeth, $153,845. Grand total, $383,430. Noted Apr. 7.

Pennsylvania — State Hy. Dpt., Harrisburg, rein.-con. surfacing 36,300 sq.yd. Route 115, Sect. 8, Frankfort Springs Boro, Hanover Twp., Washington and Beaver Counties, to D. W. Challis, Sewickley, $105,894; surface treating 114,051 sq.yd. Route 209, Corydon and Lafayette Twps., McKean Co., to N. B. Putnam, 204 Old Citizens Bldg., Ft. Wayne, Ind., $204,488. Noted Mar. 17.

Pa., Boston—Allegheny Co., County Office Bldg., Pittsburgh, grading, paving approaches to Boston Bridge over Youghiogheny River, to A. Ancarani & Sons, 122 North 4th St., Clairton, $37,609. Noted Apr. 14.

Pa., Pittsburgh—See "Bridges."

Utah—State Rd. Comn., H. H. Blood, chn., Salt Lake City, grading, draining, gravel, surfacing 5.56 mi. Midland Trail, Utah Co., to F. Whiting, Kaysville, $61,257. Noted Apr. 28 Daily.

Vermont—State Hy. Dpt., Montpelier, gravel paving 16.9 mi. hy. Williamstown, Brookfield and Randolph, to Callan Constr. Co., 45 Sherry Ave., Bristol, R. I., $158,766—gravel 6.1 mi. Randolph and Bethel, to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $97,033—concrete paving 9.8 mi. Waterbury and Stowe, to D. W. Overocker, Shelburne Rd., Burlington, $248,480. Grand total $504,249. Noted Apr. 26 Daily.

Wash., Seattle—Bd. P. Wks., paving, concrete sidewalks, mains, etc., in Princeton Ave., Princeton Way, et al., to Moceri Bros., 2025 Jackson St., $41,221. Est. $42,000. Noted Mar. 17.

Wash., Spokane—City Council, grading, sidewalks, concrete curbing, concrete paving 16,498 sq.yd. Crestline St., to G. H. Weller, 618 Madelia St., Spokane, $37,500. Est. $41,700. Noted Apr. 21.

Wisconsin—State Hy. Comn., State Capitol Annex, Madison, grading 4.851 mi. S.T.H. 140, State Aid Project 1448, to C. M. Straavaldson, Madison, $20,242—0.242 mi. Sterling Grade Separation approaches only, U. S. 41, State Aid Project 2030, Washington Co., to Jaeger Bros., Inc., West Bend, $7,236—0.62 mi. Auburndale Grade Separation, U. S. 10, State Air Project 4641, Wood Co., to Burch Constr. Co., Madison, $21,917—concrete surfacing 0.151 mi. S.T.H. 100, State Air Project 2026, Milwaukee Co., to F. Hillman, Milwaukee, $9,736—0.379 mi. Project 1374, Dodge Co., to Morgan Constr. Co., Inc., Oshkosh, $8,573—7.939 mi. U. S. Hys. 10 and 12, Project 302-A, 395-C and 6200, Clark Co., to L. G. Arnold, Inc., Eau Claire, $199,531 —9.172 mi. State Trunk Hy. 11, Projects 410 A and B, Iowa Co., to Universal Engr. Co., Medford $181,119—8,146 mi. U. S. Hys. 12 and 16, Project 325-C, Juneau Co., to Vinton Constr. Co., Manitowoc, $130,018—6.114 mi. Project 396-A, reopened and 396-D, Montroe Co., to S. J. Groves & Sons Co., 529 South 7th St., Minneapolis, $150,554—13.547 mi. Project 466-C, Door Co., to W. Conway, Madison, $284,850. Grand total $1,013,776. Noted Apr. 21.

Wisconsin—State Hy. Comn., Madison, grading, concrete paving 96,870 sq.yd. Langlade Co. Line-Monico Rd., F.A.P. 380A and 436-D, State Trunk Hys. 26 and 47, and U. S. Hy. 8, Oneida Co., to Koepke Bros. Constr. Co., Appleton, $183,439 — 167,609 sq.yd. South Co. Line-Spooner Rd., F.A.P. 385-B and C, and 433-B and C, Washburn Co., to N. M. Isabella, 2245 Eton Ridge Rd., Madison, $222,155—108,551 sq.yd. Rice Lake-Spooner Rd., F.A.P. 433-A, Barron Co., to Vogt-Lotz Co., Wausau, $133,199 — 115,760 sq.yd. Amicon Falls-Maple Rd., F.A.P. 375-F, Douglas Co., to A. Johnson Constr. Co., 1411 Goshay Tower, Minneapolis, Minn., $199,994—116,187 sq.yd. Black River Falls-Millston-Tomah Rd., F.A.P. 214, Jackson and Monroe Counties, to Lampert & Lampert, Inc., Oshkosh, $204,791—98,621 sq.yd. Brule-Iron River Rd., Douglas and Bayfield Counties, to R. R. Birdsall & Sons Co., Racine, $130,811—177,246 sq.yd. Phillips-Fifield Rd., Price Co., to Kramp Constr. Co., Berlin, $196,372. Grand total $1,270,761. Noted Apr. 21.

B. C., Vancouver—Concrete paving, to Carter-Halls-Aldinger Co., 510 West Hastings St., $1,575; and to G. W. Ledingham, 1075 Main St., $61,079.

Ont., Hamilton—City concrete curbing, concrete base, guttering and asphalt paving Ferrie St., $8,402, Jackson St. $17,663, and Wexford Ave. $11,715, day labor. W. L. McFaul, City Hall, engr.

Ont., Kirkland Lake—C. H. Fullerton, deputy minister Dpt. Northern Development, Parliament Bldgs., Toronto, clearing, grading, 10.4 mi. Larder Lake-Cheminis Rd., in Hearst, McVittie and McGarry Twps., to Northern Paving & Equipt. Co. Ltd., Kirkland Lake. Est. $35,000. Noted Apr. 14.

Ont., Picton—Prince Edward Co., repairing and maintenance county roads for year, incl. grading, ditching, draining, resurfacing, graveling, etc., day labor. $55,000. J. Dunkley, Picton, engr.

Ont., Stratford—Perth Co., maintenance of county roads, incl. grading, surfacing, culverts, draining, day labor. $50,000. J. M. Empey, Mitchell, engr.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

La., New Orleans—Orleans Levee Bd. replacing Dumaine St. Levee, incl. demolishing two 3 story buildings, utilizing 75 ft. steel piling, placing intercepting wall, raising levee. $300,000-$400,000 exclusive of right-of-way obtained where buildings stand.

BIDS ASKED

Ill., Chicago—May 16, by Dpt. P. Wks., City Hall, backfilling ditches made by Div. Water Dpt. Pipe Extension in laying water pipe. A. A. Sprague, comr.

Ia., Keosauqua—May 19, by Bd. Supervs. Van Buren Co., L. I. Peel, aud., acting as Drainage Board for Fox River D.D. 1, repairing, extending Fox River D.D. 1, incl. 157,524 cu.yd. excav., clearing right-of-way. W. A. Griffith, Mt. Pleasant, engr.

Mass., Falmouth—May 17, by Dpt. P. Wks., A. W. Dean, engr., Boston, 350 lin.ft. creosoted pile and timber bulkhead, 9 timber jetties, placing 630 tons stone rip rap and chips on beach at Menauhant, for Commonwealth of Massachusetts, Dpt. P. Wks., Boston.

Excavation, Drainage, Irrigation, etc. (Continued)

N. J., North Wildwood—May 24, at office Bd. Commerce & Navigation, Trenton, dredging 3,250 ft. channel in Hereford Inlet from Fish Wharf Anglesea northwardly into deep water, Contr. 57. V. Gelineau, dir. and ch. engr.

CONTRACTS AWARDED

Kan., Clay Center—Clay Co., E. G. Gunter, clk., 1,350 ft. jetting on south side of Republican River west of Clifton, also asphaltic coating on bridge flooring, to Rehfeld Steel Jetty Co., Marshall Bldg., Manhattan.

N. Y., New York—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., dredging in Hudson, Harlem and East Rivers for maintenance company's yards, at terminals, etc., to H. DuBoise, 17 State St., New York, $100,000.

Bond Elections

Coming Bond Elections

Water System, Purchase and Improvement Private System to Operate as Municipal Project—Visalia, Calif., purchase $161,000, imp. $89,000.

Waterworks — Edmonds, Wash., Alderwood Water Dist., June 11, $75,000.

Schools—San Gabriel, Calif., May 17, $877,500.

Bonds Voted

Tunnels, 5 mi., Pipe Lines, etc., in Connection with Hetch Hetchy Water Project—Roads in Yosemite Natl. Park., $6,500,000.

Saline Street Sewer Project, Improving Allegheny River Wharf, Widening Carson St. and Chartiers Ave.—Pittsburgh, Pa., $2,000,000.

Paving, etc.—New Orleans, La., $750,000.

Bonds Defeated

Sewage Disposal Plant, 2 Mi. Outfall Sewer—Somerset, Pa., $100,000.

Flood Control Dam and Concrete Road Construction—Jeanette, Pa., $150,000.

FEDERAL GOVERNMENT

PROPOSED WORK

California — CONCRETE — U. S. Eng., San Francisco, mixing and placing 1,000 cu.yd. concrete in jetty at mouth of Nayo River.

Calif., San Francisco—FEDERAL BUILDING—Treas. Dpt. at office Sup. Archt., Wash., D. C., making working drawings by A. Brown, Jr., 251 Kearny St., 6 story, basement, rein.-con., Civic Center. $3,500,000. Preliminary plans approved. Noted July 31, 1930.

Colo., Pueblo—BROADCASTING STATION—Dpt. Commerce, I. J. Rovang, assistant supt., Cheyenne, radio beacon broadcasting station. Site secured.

Fla., Jacksonville—LEVEE and CHANNEL—U. S. Eng., 65,000 lin.ft. levee and navigation channel, 4,860,000 cu.yd. material from channel and placing in levee and 45,000 cu.yd. rip rap along south and east shore Lake Obeechebee. Noted July 23.

Illinois—DIKES—U. S. Eng., Memphis, Tenn., 47,200 lin.ft. dikes in 7 localities 55 to 302 mi. below Cairo on Mississippi River between Cairo, Ill. and White River.

Indiana—DREDGING—U. S. Eng., Chicago, Ill., 383,000 cu.yd. from Indiana Harbor.

N. J., Caldwell—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., 2 story, basement, brick, stone, steel post office. $150,000. **Maturity indefinite.**

N. Y., Flushing—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids early in June, substructure 2 story, U. S. Post Office, Main and Sanford Sts. Total cost $750,000. J. D. Baum, Waldo Ave. and West 244th St., New York, archt. W. Knowles, 1 Bridge Plaza, Long Island City, assoc. archt. Noted Jan. 14.

N. Y., Kingston—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., rescinded contract and bids rejected remodeling U. S. Post Office. Will readvertise. Noted Apr. 18.

O., Columbus—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans completed by Richards, McCarty & Bulford, 584 East Broad St., U. S. Post Office, West Front St. $2,000,000. Noted Jan. 14.

Ore., St. John—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by M. Stokes, Chamber of Commerce Bldg., Portland, U. S. Post Office. $50,000.

Pa., Phila.—DREDGING—U. S. Eng., 597,000 cu.yd. from 35 ft. channel in Philadelphia Harbor between Walnut St. and Pt. House Wharf.

Tenn., Memphis—HOSPITAL—Treas. Dpt. at office Sup. Archt., Wash., D. C., revised plans by Regan & Weller, Bank of Commerce Bldg., and takes new bids from original bidders 3 story, 45 x 102 x 140 ft., rein.-con., brick marine hospital addition, California Ave. $175,000. **Former bids rejected.** H. B. Hunter, Union & Planters Bldg., engr. Noted Mar. 24.

Tex., Galveston—PILES, etc.—U. S. Eng., Galveston, 10,000 ft. creosoted piles and quantity lumber.

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Tex., San Angelo—FISH HATCHERY—Dpt. Agriculture, Wash., D. C., concrete vats, natural lake, etc., for fish hatchery. $50,000.

Virginia — DREDGING — U. S. Eng. Office, Norfolk, 1,120,000 cu.yd. material from Dismal Swamp Canal.

Va., Langley Field—WATER and SEWERAGE SYSTEMS—Con. Q.M. bids latter part May, water and sewerage systems for offices' quarters. $15,000.

Va., Norfolk—DREDGE—U. S. Eng. converting S. S. Lake Glasgow into 20 in. sea going dredge.

BIDS ASKED

Ala., Montgomery—MAGAZINES—May 31, by Con. Q. M., Maxwell Field, 7 standard magazines. $15,000; adv. E. N.-R. May 12.

Calif., San Francisco—POWER and WATER SYSTEM—May 20, by Con. Q. M., Presidio of San Francisco, electric power and water system at Custer Battlefield.

Del., Dover—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Conneen Constr. Co., 4023 Market St., Phila., Pa., $72,295. Noted Apr. 14.

D. C., Wash.—MOTOR DRIVEN BLOWER, etc.—May 16, by A. L. Flint, purch. officer Panama Canal, 1 motor driven electric blower, 5 oil circuit breakers, 1 secondary distribution panel, 3 knife switches, 2,400 ft. control cable, Schedule 2749.

Florida—DREDGING—June 6, by U. S. Eng., Jacksonville, 916,596 cu.yd. from a relocation cut in the Intracoastal Waterway, in vicinity of Ponce de Leon Inlet. Noted May 5.

Fla., Palm Beach—POST OFFICE—June 2, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office.

Idaho, Boise—FENCE and GATES—May 26, by Vet. Bu., Administration Hospital, Palo Alto, Calif., 9,000 ft. 6 ft. high woven wire fence and wrought iron gates, incl. excavating, grading, concrete post settings, galvanized metal posts, at U. S. Veterans Hospital.

Illinois, Missouri and Arkansas—WALL—June 2, by U. S. Eng. P. O. Box 97, Memphis, Tenn., 4,560 lin.ft. steel sheet pile cut-off wall with concrete cap, Cairo, Ill.; 3,097 lin.ft. at Caruthersville, Mo.; 3,112 ft. at Helena, Ark.

Ill., Hines—ADMINISTRATION—May 31, by Vet. Bu., Wash., D. C., 1 nurses' quarters Building 14, incl. excavating, rein.-con., hollow tile, etc., at U. S. Veterans' Hospital.

Ia., Sioux City—POST OFFICE, etc.—June 8, by Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing (excepting elevators), U. S. Post Office, Court House, etc.; adv. E. N.-R. May 12. Noted Apr. 28.

La., Shreveport — GARAGES — May 24, by Con. Q. M., Barksdale Field, certain garages at Barksdale Field; adv. E. N.-R. May 12.

Me., Sanford—POST OFFICE—May 31, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, etc.; adv. E. N.-R. May 12. Noted Sept. 10.

Mass., Boston—CEMENT, etc.—May 17, by Bureau Supplies & Accounts, Navy Dpt., portland cement, packings and gaskets at Navy Yard.

Mich., Sand Point—COAST GUARD STATION—May 25, by U. S. Coast Guard Headquarters, Wash., D. C., 2 story, 30 x 45 ft. frame dwelling, concrete found.; 1 story, 37 x 55 ft. frame boathouse, creosoted pile found.; 32 x 128 ft. wood pile and timber marine launchway; 2 creosoted pile, timber bulkheads; 10 x 40 ft. creosoted timber and pile landing wharf; excavating, grading, dredging at Munising Coast Guard Station.

Miss., Hattiesburg—POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about July 9, U. S. Post Office. $245,000 appropriated. J. G. Landry, Hattiesburg, Miss., and R. De Buys, Hibernia Bank Bldg., New Orleans, La., archts. Noted Dec. 3.

Mo., Jefferson City—POST OFFICE—May 26, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office and Courthouse; adv. E. N.-R. May 12. Noted Jan. 28.

Montana—ELECTRIC POWER LINE, etc.—May 20, by Con. Q. M., 9th Corps Area, Fort Mason, intake at Little Big Horn River; incl. furnishing, laying 2,600 ft. 4 in. c.i. pipe, and taking up and relaying 1,800 ft. old 3 in. pipe, furnishing, installing motor driven pump in present pumphouse, constructing 20,000 gal. concrete reservoir, installing septic tank and sewage disposal plant, sprinkling system at cemetery, water filter in basement superintendent's lodge, 22,000 volt 3 phase, electric power line approximately 3.5 mi. long from Crow Agency to Custer Battlefield Natl. Cemetery, Crow Agency, Big Horn Co.

N. J., Fort Monmouth—GARAGES—May 31, by Con. Q. M., 15 double sets brick garages.

N. Y., Mineola—GYMNASIUM—June 2, by Con. Q. M., Mitchell Field, constructing gymnasium. Noted May 5.

N. Y., New York—FEDERAL COURT HOUSE—May 14 (extended date), by Treas. Dpt. at office Sup. Archt., Wash., D. C., excavations and foundations for U. S. Court House. Total est. $10,700,000. Unofficial. Cass Gilbert, 244 Madison Ave., archt. Noted Mar. 5.

Texas and Oklahoma — AIRWAY BEACON SITES—May 16, by Div. Purchases & Sales, Dpt. Commerce, Wash., D. C., establishing airway beacon sites on Amarillo-Tulsa Sect. Amarillo-St. Louis Airway, Proposal 24260.

Va., Quantico—STREET LIGHTING — May 25, by Yards & Docks, Navy Dpt., Wash., D. C., system of street lighting, incl. lighting standar cables, ducts, potheads, transformers, swi board panel, cross arms, etc., at Marine B racks; adv. E. N.-R. May 12.

Wash., Cle Elm—GATE HOIST—June 1 by Bureau Reclamation, Dpt. Interior, Denv Colo., furnishing one motor-operated tand cylinder gate hoist. M. A. Schnurr, act comr.; adv. E. N.-R. May 12.

Canal Zone—QUARTERS, etc.—June 15, office Dpt. Quartermaster, Quarry Heights, co structing 14 officers' quarters; 2 four-fami N.C.O. quarters; 1 battalion barracks, in utilities; widening Gaillard Hy. and moving O fice Club and garages for 2nd Field Artill Post, Fort Clayton; adv. E. N.-R. May 12.

BIDS RECEIVED

D. C., Wash.—EXTENSIBLE BUILDING—Treas. Dpt. at office Sup. Archt., Wash., D. C May 6, constructing 5 wings extensible buildi for Dpt. Agriculture from Aronberg-Fried Co 1248 3rd Ave., New York. Proposals (a) $5 295,000 (b) $5,380,000 (c) $5,295,000. Note Apr. 7.

Mich., Detroit—EXCAVATING—U. S. Eng Detroit,, May 5, 2,678,400 cu.yd. excavatin principally ledge rock from Livingston Channe from Arundel Corp., Pratt St., Baltimore, Md. $3,426,373 (unofficial). Noted Apr. 7.

CONTRACTS AWARDED

Calif., Riverside—WATER TANK—Con. Q. M March Field, 200,000 gal. steel tank on 112 ft trestle at March Field, to Pittsburgh-Des Moines Steel Co., 438 East 3rd St., San Francisco, $10,850; concrete reservoir, to H. G. Klusman, Cucamonga, $5,000. Noted Feb. 25.

Calif., Sunnyvale—BOILER PLANT, etc.—Spec. 6707 and 6761—Yards & Docks, Navy Dpt., Wash., D. C., boiler plant equipment at Naval Air Station, to F. W. Snook Co., 596 Clay St., San Francisco, $84,627 (210 days); high and medium pressure air and helium piping, to Helium Co., 1303 South Shelby St., Louisville, Ky., $133,500. Noted Mar. 3.

Calif., Sunnyvale—INDUSTRIAL BUILDINGS—Spec. 6791—Yards & Docks, Navy Dpt., Wash., D. C., 5 industrial buildings at Naval Air Station, to R. E. McKee, 108 West 6th St., Los Angeles, $165,700. Noted Apr. 7.

Conn., Newington—FENCE and GATES—Vet. Bu., Arlington Bldg., Wash., D. C., wrought iron fence and gates, to Hub Steel & Iron Wks., 43 Fremont St., Somerville, $5,800. Noted Apr. 21.

Delaware—DIKE WALLS—Treas. Dpt. at office Sup. Archt., Wash., D. C., dike walls, Reedy Island, to S. D. Collins, Port Penn, $12,960.

Illinois—EARTHWORK—U. S. Eng., Customhouse, St. Louis, Mo., 510,000 cu.yd. earthwork in rebuilding and enlarging levee of Scott Co. Drainage & Levee Dist., Scott Co., on Illinois River, to Mulgrew & Sons Co., Dubuque, Ia., $39,780; and 540,000 cu.yd. to L. E. Sternberg, Creston, Ia., $74,088. Noted Apr. 7.

Ill., Joliet—WALLS—U. S. Eng., 1st Chicago Dist., Chicago, concrete masonry walls, sewers at Brandon Road Pool, on Des Plaines River, to Tulley-Costello Co., 33 North LaSalle St., Chicago, $237,772. Est. $335,705. Noted Mar. 31.

Illinois and Missouri — PILING DIKES — U. S. Eng., 428 Customhouse, St. Louis, Mo., 4,600 lin.ft. piling dikes in Mississippi River at Devils Island, Ill., and Kinney Point, Mo., to Massman & Peterman, Railway Exch. Bldg., St. Louis, Mo., $71,525. Noted Apr. 7.

La., Shreveport—BARRACKS—Con. Q. M., Barksdale Field, 3 story, basement, 95 x 130 ft., brick, steel, to T. Wood, Sherman, Tex., $104,700. Noted Mar. 31.

La., Shreveport—DRAINAGE SYSTEM—Con. Q.M., Barksdale Field, gridiron drainage system for flying field, to G. J. Robinson Co., Pine Bluff, $78,448. Est. $100,000. Noted Apr. 21.

Md., Baltimore—HOSPITAL—Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing U. S. Marine Hospital, to W. E. O'Neil Constr. Co., 308 West Washington St., Chicago, Ill., $809,900. **Noted Mar. 17.**

Md., Perry Point—HOSPITAL—Vet. Bu., Arlington Bldg., Wash., D. C., nurses' and attendants' quarters, to J. L. Robinson Constr. Co., 1100 Block Pierce St., Baltimore. $238,259. Noted Mar. 24.

Mich., Detroit—WAREHOUSE—U. S. Eng., warehouse, oil storage building, dock repairs and crane, to Atkin & Stock, 14915 Grand River Rd., $27,940. Noted Mar. 24.

Minn., Mankato—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to G. H. Peterson, 1036 Building Exch. Bldg., Minneapolis, $179,500. Noted Mar. 24.

Mo., Kansas City—STEEL WIRE, etc.—U. S. Eng., 707 Postal Telegraph Bldg., to Black Wire Rope Co., Peoria, Ill., 240,000 ft. ⅜ in. strand steel wire, f.o.b. Glasgow, $11.43 per 1,000 ft.; to Massman Constr. Co., 534 New York Life Bldg., 110 cords willow brush, f.o.b. contractor's barge, at Cambridge Bend, right bank Mississippi River, at $2.65 per cord; to Crane Co., 1532 Grand Ave., 15 ft. 3¼ in. and 2¼ in. inside diam. steel tubing with 0.5 in. thickness at $1.31 per ft., 15 ft. 3 in. outside, 2 in. inside, and 0.5 in. thickness at $1.19 per ft., 15 ft. 2¼ in. outside, 1¼ in. inside and 0.375 in. thickness tubing at 63c. per ft.; to J. O'Connor Constr. Co., 309 Hall Bldg., 200,000 gal. oil tank at Jefferson City, $1,634.

Mo., St. Louis — DREDGES — U. S. Eng., Munitions Bldg., 2 steam-driven stern wheel 20 in. pipe line dredges, to U. S. Eng. Depot, to Dravo Contg. Co., Neville Island, Pittsburgh, Pa. Noted Jan. 21.

Federal Government (Continued)

N. Y., Brooklyn—CAPSTANS—Spec. 6827—Yards & Docks, Navy Dpt., Wash., D. C., electrically driven capstans for Dry Dock 2, to Silent Hoist, Winch & Crane Co., 762 Henry St., $12,553.

N. Y., Brooklyn—PIER—Con. Q.M., Army Base, 58th St. and 1st Ave., repairing Pier 2, Army Base, to F. Movizzo & Co., 1554 75th St., $17.621. Noted Apr. 7.

N. Y., Northport—REFRIGERATION PLANT—Vet. Bu., Arlington Bldg., Wash., D. C., refrigeration plant addition, to Carbondale-New York Co.. 175 Christopher St., New York, $4,245. Noted Apr. 18.

Okla., Miami—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., 3 story, basement, 87 x 104 ft. steel post office, 1st St., to J. S. Barnes, Logansport, Ind., $146,200. Noted Mar. 31.

Okla., Muskogee — HEATING — Vet. Bu., Arlington Bldg., Wash., D. C., heating for existing buildings in U. S. Veterans' Hospital group, to C. T. Crockett, Bethesda, Md., $4,995. Noted Mar. 10.

Tenn., Memphis—STEEL FORMS—U. S. Eng., Memphis, steel forms for articulated concrete mattress, to Mesker Bros. Iron Co., 424 South 7th St., St. Louis, Mo., $34,400; steel end forms for articulated concrete mattress, to Crosby Co., 183 Pratt St., Buffalo, N. Y., $2,450; 2 vibrating screens, to Link Belt Co., Nicetown, Phila., Pa., $3,430. Grand total $40,280. Noted Apr. 7.

Va., Quantico — REPAIRING PIER — Spec. 6815—Yards & Docks, Navy Dpt., Wash., D. C., timber fender system, concrete paving for pier and concrete sheet pile bulkhead, at U. S. Marine Barracks, to Palmer Constr. Co., Florence, S. C., $26,536. Noted Apr. 7.

Wash., Ellensburg — PENSTOCKS — Bureau Reclamation, Denver, Colo., furnishing, erecting steel penstocks for Wipple Pumping Plant, Kittitas Div., Yakima Project, to Beall Pipe & Tank Co., 85 Col. Blvd., Portland, Ore., $16,600. Est. $20,000. Noted Feb. 25.

Wash., Fort Lewis—GARAGE—Con. Q. M., 1 hospital ambulance, garage and animal house, to H. J. and D. Salie, 817 Grand Ave., Everett, $3,857.

Wyo., Newcastle—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Phelps-Drake Co., 711 Metropolitan Life Bldg., Minneapolis, Minn., $54,500.

RAILWAYS

PROPOSED WORK

California — Interstate Commerce Comn. authorized city of Stockton to construct 4.5 mi. railroad and joint construction by Southern Pacific R.R. Co., 65 Market St., San Francisco, W. H. Kirkbridge, ch. engr., Western Pacific R.R. Co., Mills Bldg., San Francisco, J. W Williams, ch. engr., and Atchison, Topeka & Santa Fe R.R. Co., 80 East Jackson Blvd., Chicago, Ill., G. W. Harris, ch. engr., to construct about 1 mi. railroad, as part of rail-water terminal project at Stockton.

Colorado and California—The hearing before an examiner of the Interstate Commerce Comn. set for May 10, at Los Angeles, Calif., on Denver & Pacific R.R. Co., Salt Lake City, Utah, application of for certificate authorizing construction 1,200 to 1,300 mi. railroad from Denver, Colo., to San Pedro, Calif., has been cancelled. Noted Jan. 14.

Wisconsin—See "Industrial Buildings," under Milwaukee.

BIDS ASKED

Illinois—See "Contracts Awarded."

Minnesota, Montana, etc. — See "Contracts Awarded."

New Jersey—May 26, at office J. T. Congleton, dir. Dpt. P. Affairs, City Hall, Newark, special trackwork, other track materials, incl. rail, rail joints, rail braces, tie plates, etc., for portion City Railway, consisting 8 mi. single track, Newark; adv. E. N.-R. May 12.

CONTRACTS AWARDED

Illinois—Toledo, St. Louis & Western R.R Co. (Nickel Plate System) subsidiary New York, Chicago & St. Louis Ry. Co., Terminal Tower Bldg., Cleveland, O., A. C. Harvey, ch. engr., reconstructing 8 mi. railroad from Kaufman to New Douglas, own forces.

Minnesota, Montana, etc. — Great Northern R.R. Co., S. R. W. Davis, ch. engr., St. Paul, Minn., soon takes bids 10,000 tons rail for general maintenances. Track work to be done by day labor.

SUBWAYS AND TUNNELS

PROPOSED WORK

Calif., Goshen—State Hy. Comn., Sacramento, subway under tracks Southern Pacific R.R., 1.5 mi. south of here, Tulare Co. To exceed $100,000. C. H. Purcell, hy. engr.

Calif., San Jose—See "Grade Crossings."

GRADE CROSSINGS

PROPOSED WORK

Calif., Venice—State Hy. Comn., Sacramento, C. H. Purcell, ch. engr., has been authorized by Pacific Electric Ry. Co., Pacific Electric Bldg., Los Angeles, E. C. Johnson, ch. engr., to construct grade crossing to carry Roosevelt Hy. under tracks and under Culver Blvd., near here. $180,000. Pacific Electric Ry. Co. will pay $20,000 towards cost, the remainder of cost to be borne by State and Los Angeles Co.

Calif., Goshen—See "Subways and Tunnels."

Calif., San Jose—Southern Pacific R.R. Co., 65 Market St., San Francisco, W. H. Kirkbride, ch. engr., plans made San Carlos Street Viaduct, incl. (preliminary estimates) 1,300 cu.yd. mass concrete, 3,600 cu.yd. rein.-con., 450,000 lb. reinforcing steel, 390,000 lb. structural steel, 32,000 sq.ft. concrete paving, 880 piles; Julian Street Subway, 9,800 cu.yd. excav., 450 cu.yd. mass concrete, 1,550 cu.yd. rein.-con., 13,000 sq.ft. concrete paving, 165,000 lb. reinforcing steel, 230,000 lb. structural steel, drainage system, incl. pumps, 300 piles.

Mass., Brookline—Town. Bd. Selectmen, concrete, steel crossing over Boston & Maine R.R., Dean Rd. $25,000 appropriated.

N. Y., Afton—Delaware & Hudson R.R. Co., J. MacMartin, ch. engr., Albany, eliminating grade crossing, incl. concrete stairway. To exceed $25,000. Pub. Serv. Comn. approved detailed plans.

N. Y., Brushtown—Rutland R.R. Co., G. L. R. French, vice pres. and genl. mgr., Rutland, Vt., eliimnating Bell Grade Crossing. $25,000. Hearing July 8 before Pub. Serv. Comn.

N. Y., Lancaster — Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., eliminating grade crossing Pub. Serv. Comn. directed purchase of land. To exceed $25,000.

N. Y., Manchester—Lehigh Valley R.R. Co., G. T. Hand, ch. engr., 143 Liberty St., New York, eliminating grade separation, Ontario Co. To exceed $25,000. Pub. Serv. Comn. approved general plans.

Ont., Smith Falls—Canadian Natl. Rys., T. T. Irving, ch. engr. (Central Region), Toronto, soon takes bids new overhead bridge over Smith Falls-Ottawa Hy. near Franktown, $30,000.

N. Y., Northumberland—Delaware & Hudson R.R. Co., J. MacMartin, ch. engr., Albany, soon takes bids eliminating grade crossing, Fullerton St. and Gansevoort Station. Pub. Serv. Comn. approved plans and contract forms. $25,000. Noted Apr. 14.

N. Y., Sanford—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Trust Bldg., Cleveland, O., eliminating Oquaga Crossing. To exceed $25,000. Pub. Serv. approved detailed plans. Noted Feb. 25.

N. Y., Unadilla—Delaware & Hudson R.R. Co., J. MacMartin, ch. engr., Albany, eliminating grade crossing. To exceed $25,000.

N. Y., Watervliet—Delaware & Hudson R.R. Co., J. MacMartin, ch. engr., Albany, preliminary plans eliminating 19th and 23rd Sts. Grade Crossings. To exceed $25,000.

BIDS ASKED

Mo., St. Louis—May 31, by Bd. P. Serv., City Hall, rein.-con. tile lined pedestrian underpass under east side 12th Blvd. at Market St. to connect with present underpass under south side Market St. $13,200. L. R. Bowen, city engr.

N. Y., Buffalo—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, eliminating grade crossing South Scajaquada Parkway and Grant St. To exceed $25,000.

N. Y., Lockport — New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, preliminary plans eliminating Gooding St. Crossing. To exceed $40,000.

Tex., Fort Worth—City, c/o G. Fairttrace, mgr., and Texas & Pacific Ry. Co., E. F. Mitehell, ch. engr., Dallas, and St. Louis and San Francisco R.R., F. G. Jonas, ch. engr., St. Louis, Mo. Bids about June 1. 566 ft. rein.-con., steel ,gunite covered viaduct over Texas and Pacific and Frisco R.R. $117,000.

CONTRACTS AWARDED

N. Y., Hornell—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., revision Thatcher Street Extension, part Main, Washington and Steuben Sts. grade elimination projects, to Newhall Co., Terminal Tower Bldg., Cleveland, O. Est. exceeds $25,000. Noted Aug. 19.

DAMS

PROPOSED WORK

B. C., Victoria—Preliminary plans made to raise dam at Sooke Lake from 12 ft. to 40 ft. height, doubling water storage capacity from 3,600,000,000 gal. to 7,200,000,000 gal. $1,000,000. F. M. Preston, City Hall, engr.

PIERS AND WHARVES

PROPOSED WORK

Miss., Gulfport—Illinois Central R.R. Co., 135 East 11th Pl., Chicago, Ill., reconstructing pier and warehouses recently destroyed by fire. To exceed $200,000. Atmospheric Nitrogen Corp., 61 Bway., New York, lessee of warehouse.

N. Y., New York—Cunard Steamship Co., lessee, 25 Bway., preliminary plans rebuilding pier, incl. dock and storage. Dpt. Docks, Pier A, foot Battery Pl., owner. To exceed $1,000,000.

CONTRACTS AWARDED

Que., Montreal East — Montreal Harbour Comrs., wharf at plant of British American Oil Co., to Northern Constr. Co., Confederation Life Bldg., Montreal. $150,000. Noted Dec. 17.

AIRPORTS

CONTRACTS AWARDED

Calif., San Diego—Ryan Airport, T. C. Ryan, air terminal, incl. waiting rooms, restaurant, also hangar, Lindbergh Field, to L. T. Olmstead Building Co., 2255 5th Ave. Est. $40,000.

POWER AND LIGHTING

PROPOSED WORK

Minn., Red Wing—See "Industrial Buildings."

New York—Elmira Water, Light & Railroad Co., Huett Bldg., Elmira, authorized by Pub. Serv. Comn. to construct electric distribution system in Montour and gas distribution system in Catharine. To exceed $25,000. Noted Jan. 28 and Mar. 3.

New York—New York Power & Light Co., 126 State St., Albany, electric distribution line in Cherry Valley, Otsego Co. and in Arietta, Hamilton Co. Applied to Pub. Serv. Comn. for permission to construct.

N. Y., Woodhull—New York Central Electric Co., 29 East St., Rochester, electric distribution system. To exceed $25,000. Pub. Serv. Comn. authorized construction.

Wash., Everett—West Coast Telephone Co., Everett, rebuilding heavily loaded lines and rearranging circuits in Snohomish Co. $150,000, and Skagit Co. $75,000 during 1932. E. R. Hannibal, vice pres. and genl. mgr.

Manitoba—Provincial Hydro, D. L. McLean, chn., 146 Notre Dame St. E., Winnipeg, plans transmission line northwest from Minnedosa to extend Provincial Hydro Power to other towns, incl. Basswood, Newdale, Strathclair, Shoal Lake, Kelloe, Solsgirth, St. Lazaire, Foxwarren, Binscarth and Penrith, as unemployment relief. $200,000. A. Trott, c/o owner, engr.

BIDS ASKED

N. Y., New York—May 17, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., furnishing, installing station and tunnel lighting equipment, incl. electric heating and ventilation for Independent System City-owned Rapid Transit Railroads.

N. Y., New York—May 27, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., furnishing, installing electric light and power system for Concourse Shops and Yard Independent Subway System of City-owned Rapid Transit Railroads.

N. Y., Pine Aire Station—June 8, by Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, electrical work for service connections, Farm Buildings, Pilgrim State Hospital, Suffolk Co.; adv. E. N.-R. May 12.

CONTRACTS AWARDED

Mass., Boston—City, Fire Dpt., fire alarm underground construction, to Coleman Bros., Inc., 245 State St., Boston. Est. $25,000.

Man., Winnipeg—See "Power Plants."

PARKS AND SPORTS

PROPOSED WORK

Missouri—Sylvan Beach, Inc., L. W. Peters, pres., 4339 Lindell Blvd., St. Louis, 100 x 200 ft. concrete swimming pool, 1 story, 120 x 150 ft. frame bath house, several 1 story, 20 x 30 ft. frame cottages in St. Louis Co. P. M. Perkinson, Edna and Virginia Sts., Kirkwood, engr.

N. J., Somerville—J. W. O'Connor, archt., 162 East 37th St., soon lets contract 20 x 50 ft. swimming pool, 60 x 125 ft. tennis courts, lockers, dressing and lounge rooms, for D. Duke, Somerville, or c/o architect.

N. Y., Shelter Island—Silver Beach Estates, c/o W. Kennelly, 551 5th Ave., 600 acre beach and sports development, Peconic Bay and West Neck Harbor.

Tex., San Antonio—See "Commercial Buildings."

BIDS ASKED

Mass., Boston—May 18, by Park Dpt., 33 Beacon Sts., grading Webster Ave. playground, concrete walks, wooden ramp, etc., at North End Park. $25,000 or more.

N. Y., Mincola—See "Contracts Awarded."

N. Y., Pelham—See "Contracts Awarded."

N. Y., Rockaway — May 17, by Bd. Park Comrs., W R. Herrick, pres. Park Dpt., Arsenal Bldg., Central Park, sewage disposal system, Bathing Pavilion, Jacob Riis Park.

CONTRACTS AWARDED

Calif., Pomona — Los Angeles Co. Fair Grounds Assn., 142 x 420 ft., steel, concrete grandstand, to C. T. and W. P. Stover, 116 Alexandria Ave., Claremont, $158,620. Noted Apr. 7.

La., Shreveport—Century College, general contract steel, concrete stadium, to E. C. Nickols, Shreveport, concrete foundation, to R. O. Marks, Shreveport. Total est. $25,000. Noted Apr. 7.

Mass., Boston—Park Dpt., 33 Beacon St., 1 story, brick, concrete field house, McConnell Park, Springdale and Denney Sts., Dorchester, to M. S. Kelleher Co., 38 Chauncy St., Boston. Est. $30,000. Noted Apr. 21.

Mass., Newton—Boston College Athletic Assn., J. P. Curley, in charge, concrete, steel stadium at University Heights, to Wayne Steel Co., Wayne, Pa. Est. exceeds $25,000.

Parks and Sports (Continued)

N. Y., Mineola—Town, drainage system for park, to C. Davis, Maple Pl., est. $20,000; constructing park, by day labor. Noted Sept. 17.

N. Y., Pelham—Westchester County Park Comn., 72 West Pondfield Rd., Bronxville, recreation center, incl. baseball and basket ball courts, showers, lockers and altering building on site into field house, by separate contracts and day labor, when funds become available. G.D. Clarke, c/o owner, archt. Noted May 5.

HEATING AND VENTILATING

PROPOSED WORK

N. Y., Marcy — Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, rejected bids Apr. 6, garage, propagating house, piggery, service tunnels, Marcy State Hospital. Noted Mar. 24.

N. Y., New York—L. Wirth, c/o L. E. Mellor, archt., 524 East 87th St., altering boiler and heating plant, fire retarding walls, new brick chimney, and opening changes of 5 story storage, apartment, 31 Bank St.

BIDS ASKED

N. Y., New York—May 24, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., installing steam heating system for Concourse Yard Buildings, part Independent System City-owned Rapid Transit Railroads.

CONTRACTS AWARDED

N. H., Durham—State University of New Hampshire, E. H. Lewis, heating and plumbing in girls dormitory, to Jennison Co., 17 Putnam St., Fitchburg, Mass.; electrical work, to R. P. Farmer, 63 Amherst St., Manchester. Est. $25,000.

N. Y., Whitestone—Bd. Educ., 500 Park Ave., New York, plumbing for P. S. 79, to E. V. McGovern, 251 East 65th St., New York, $15,610; heating, to D. J. Rice, 41-50 38th St., Long Island City, $49,770. Noted Apr. 14.

UNCLASSIFIED

PROPOSED WORK

Ariz., Prescott—DIAL SYSTEM EXCHANGE—Mountain States Telegraph & Telephone Co., 1416 Curtis St., Denver, Colo., preliminary plans installing modern dial system exchange. $100,000.

Md., Baltimore—GAS TANKS, etc.—Consolidated Gas, Electric Light & Power Co., Lexington Ave., 7,000,000 cu.ft. capacity gas tanks, equipment, Jones Falls Valley. To exceed $400,000.

N. Y., Flushing—BROADCASTING STATION—Knickerbocker Broadcasting Co., 1697 Bway., New York, soon lets contract 26 x 70 ft. radio station, 23 x 37 ft. coupling building, 9 x 9 ft. garage, 28th Ave., College Point. Lockwood, Greene & Co., 100 East 42nd St., New York, engrs. and archts.

BIDS ASKED

N. Y., Attica — ELEVATORS — June 7, by Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, electric elevators in Attica State Prison; adv. E. N.-R. May 12.

CONTRACTS AWARDED

N. Y., New York—DRAINAGE SYSTEM—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., drainage system for Line C from 194th St. to Webster Ave., forming part Independent System City-owned Rapid Transit Railroads, to Eastern Constr. Co., 26 Court St., Brooklyn, $42,690. Noted Apr. 7.

N. Y., New York—ELEVATORS—Atlantic Mutual Life Insurance Co., 49 Wall St., modernizing 6 elevators with new cabs, signal system, doors, etc., 49 Wall St., to Otis Elevator Co., 11th Ave. and 26th St., New York. Est. $100,000.

O., Columbus—ENGINEERING EXPERIMENTAL STATION—Dpt. Hys., T. S. Brindle, dir., Ohio-Hartman Bldg., 4 story, basement, 100 x 130 ft., brick, concrete addition, to R. H. Evans Co., 395 East Broad St., $63,252. Noted Mar. 10.

MATERIALS

PROPOSED WORK

RAILS — **Minnesota, Montana, etc.** — See "Railways," under "Contracts Awarded."

BIDS ASKED

EXHAUST CONNECTIONS, etc.—**Chicago, Ill.** May 18, by Dpt. P. Wks., City Hall, structural exhaust connections, platforms, stairways, brass hand railing, bolts, field rivets for Mayfair Water Pumping Station. M. Reynolds, City Hall,

CASTINGS—**Boston, Mass.**—May 19, by Water Div., Metropolitan Dist. Comn., 20 Somerset St., 84 tons bell and spigot and 28 tons flanged special castings.

CLAY GRAVEL—**Waveland, Miss.**—May 20, by Mayor, mining, hauling, spreading 4,222 cu.yd. clay gravel for street paving, furnishing 3,017 cu.yd. washed gravel.

SULPHATE ALUMINUM, etc.—**New Brunswick, N. J.**—May 24, by City Comn., 100 tons sulphate of aluminum, 60 tons hydrated lime; 18,000 lb. liquid chlorine; 5,000 lb. anhydrous ammonia; 20 tons soda ash. A. Atkinson, city engr.

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TAR—**Trenton, N. J.**—May 17, by Twp. Com., 2090 Greenwood Ave., 35,400 gal. Tar X, U3—1; 10,300 gal. Tar A or U-2, and 2,500 gal. tar B heavy or U-B-3. C. H. Sincerbeau, Mechanics Bldg., engr.

TREATED TIES, etc.—**New York, N. Y.**—May 17, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., supply treated ties (Order 19) and supply special work (rails, frogs and switches) for Rapid Transit Railroads.

BITUMINOUS MATERIAL—**Wisconsin Rapids, Wis.**—May 17, by State Hy. Comn., Citizens Bank Bldg., 208,000 gal. asphalt type C, 50-60; 76,000 gal. asphalt, Type C 50-60 and 60-70 Class 1; 76,000 gal. asphalt Type C 50-60 and 60-70 Class 1 applied Green Lake Co.

CONTRACTS AWARDED

SAND—**Hartford, Conn.**—Bd. Contr. & Supply, J. S. Bush, secy., 11,000 cu.yd. sand where needed to Connecticut River Sand Co., Village St., East Hartford, and D. P. Mather & Sons Sand Co., 37 Village E. H., Hartford, at $2,640 each. Noted Apr. 14.

ZINC—**Springfield, Ill.**—E. M. Allen, general contractor, Jefferson Bldg., Peoria, 100,000 lb. zinc for covering dome of capitol building, to Illinois Zinc Co., 322 South Michigan Ave., Chicago, and 52 Vanderbilt Ave., New York, for State of Illinois. Noted May 5, under "Commercial Buildings."

ROAD OIL, LIQUID ASPHALT and TAR—**Indiana**—See "Streets and Roads."

LUMBER and PILING—**Albia, Ia.**—Monroe Co., 107,153 ft. untreated and 20,880 ft. treated fir lumber, 2,060 ft. creosoted yellow pine piling, to Morris Lumber Co., Ft. Madison, $4,798. Noted Apr. 21.

PIPE—**Council Bluffs, Ia.**—City Council, S. L. Etnyre, supt., 8 and 12 in. pipe, to American Cast Iron Pipe Co., 38 Dearborn St., South Chicago, Ill.; 6 in. pipe, to Glamorgan Cast Iron Pipe Co., Lynchburg, Va.

CULVERT PIPE, etc.—**Montezuma, Ia.**—Poweshiek Co., 6,800 cu.yd. corrugated culvert pipe, to Wheeling Corrugating Co., 100 Southwest 2nd St., Des Moines, $5,647; 800 creosoted road sign posts, to Wheeler Lumber, Bridge & Supply Co., 606 Hubbell Bldg., Des Moines, $390; 800 road signs, to State Bd. Control, Des Moines, $582. Grand total $6,619. Noted Apr. 21.

LUMBER and CULVERTS—**Oskaloosa, Ia.**—Mahaska Co., 115,600 ft. Douglas fir bridge lumber, to Nebraska Bridge Supply & Lumber Co., 448 Peters Trust Bldg., Omaha, Neb., $4,302; 20 concrete culverts, extensions, to H. E. Whitlatch, South 7th St. $6,963.

FLOORING, PILING, etc.—**Shreveport, La.**—J. T. Bullen, engr., Shreveport, to Long Bell Lumber Co., Kansas City, Mo., 42,272 ft. flooring, 9,856 ft. stringers, 4,800 ft. caps, 4,609 ft. wheel guards at $43 per 1,000 ft., 2,472 ft. piling at 37c. per ft., for Caddo Parish Police Jury, Court House. Noted Feb. 18.

CAST IRON PIPE, etc.—**Stoneham, Mass.**—Town, Bd. Selectmen, Town Hall, centrifugally cast Class 150, bell and spigot c.i. pipe, AWWA fittings, bends, tee and cap, to Warren Pipe & Fdry. Co., 75 Federal St., Boston, at 50c. per ft.

CAST IRON PIPE—**Wellesley, Mass.**—Municipality, 450 tons 6- to 14-in. c.i. pipe, to Warren Fdry. & Pipe Co., 75 Federal St., Boston.

SAND, etc.—**Minneapolis, Minn.**—City, F. S. Gram, purch. agt., 40 000 tons sand and 65,000 tons gravel, delivered, to Landers-Morrison-Christenson Co., 800 Builders Exch., at 37c. and 80c. per ton respectively. Noted Apr. 14.

SEWER CASTINGS, etc.—**Minneapolis, Minn.**—City, F. S. Gram, purch. agt., 150 tons sewer castings, to Crown Iron Wks. Co., 1229 Northeast Tyler St., manhole rings and covers at $21.77 per ton, catch basins at $31.95 a ton. Noted Apr. 7.

TAR—**Minneapolis, Minn.**—Bd. Park Comrs., City Hall, 100,000 gal. refined tar, to Barrett Co., 19th Ave. S., at 8.73c. per gal. for all grades except "D" and at 11.73c. for "D."

PIPE—**Bloomfield, N. J.**—Municipality, 100 tons 6 and 8 in. c.i. water pipe, to Warren Fdry. & Pipe Co., Philipsburg, Pa.

PIPE, etc.—**Brewster, N. Y.**—Town 125 tons 20 9 in. c.i. pipe with fittings, to Donaldson Iron Wks., Emaus, Pa.

ASPHALTIC CONCRETE — **Cleveland, O.**—Cuyahoga Co., 3,500 tons asphaltic concrete, cold mix, to Cuyahoga Asphalt Paving Co., 9501 Woodland Ave., $13,300. Est. $24,500. Noted Apr. 7.

PIPE—**Bedford, Pa.**—Municipality, 250 tons 8 in. c.i. pipe, to U. S. Pipe & Fdry. Co., Burlington, N. J.

STEEL—**Easton, Pa.**—See "Waterworks."

STRUCTURAL STEEL — **Muncy, Pa.** — See "Bridges."

STEEL—**Port Richmond, Pa.**—Reading Co., Reading Terminal Bldg., Phila., structural steel for superstructure Pier 11 (now under construction), to Belmont Iron Wks., 22nd St. and Washington Ave., Phila.

CONCRETE and STEEL—**Turtle Creek, Pa.**—Boro, ready mixed concrete and reinforcing steel for paving Farmers Alley, to Rutter Bros., Turtle Creek, $1,236.

PIPE—**Tacoma, Wash.** — Bd. Contrs. & Awards, City Hall, 2,000 ft. c.i. pipe to F. T. Crowe Co., 1110 6th Ave., $2,440. Est. $3,000.

EQUIPMENT

PROPOSED WORK

STEAM ENGINES—**Chicago, Ill.**—Dpt. P. Wks., City Hall, received no bids May 2, designing, constructing, delivering stoker driven steam engines for Mayfair Water Pumping Station. A. A. Sprague, comr.

PATROL GRADERS—**Worthington, Minn.** Nobles Co., bids probably next fall, 1 or 2 motor patrol graders. H. R. Bray, Worthington, co. hy. engr.

BIDS ASKED

BOILER—**Colorado Springs, Colo.**—May 26, by City Comn., new boiler for municipal power plant. E. L. Mosley, city engr. Burns & McDonnell Eng. Co., 406 Interstate Bldg., Kansas City, Mo., engrs. Noted Mar. 31, under "Power Plants."

PUMPING ENGINE—**Quincy, Mass.**—May 10, by Metropolitan Dist. Comn., 1 vertical pumping engine, condenser type, 1 non-clogging centrifugal pump, 15 m.g. capacity for Quincy Pumping Station, South Metropolitan System.

CHLORINATORS—**Breckenridge, Minn.**—June 6, by City, 2 chlorinators, manual control feed type. R. R. Waite, city clk.

TURBINE PUMP—**Mapleton, Minn.**—May 16, by Village, furnishing, installing one 300 g.p.m. deep well turbine pump. B. F. McGregor, village clk.

ROAD ROLLER—**St. Paul, Minn.**—May 16, by G. J. Ries, aud. Ramsey Co., 1 road roller 10 ton, 3-wheel gasoline powered. P. N. Coates, Guardian Bldg., co. hy. engr.

TANKS, etc.—**St. Louis, Mo.**—Alma Realty & Investment Co., in market three 1,000 gal. gasoline tanks and 3 pumps for filling stations, at each of the following locations, 6498 Chippewa St.; 6801 Watson Rd.; 6548 Watson Rd.; 4900 Jamieson Ave.; and 4242 Watson Rd.

SCARIFIER TEETH—**Raleigh, N. C.**—May 19, by Div. Purchase and Contr., W. Z. Betts, asst. dir., 300 scarifier teeth (for Gallon Motor Grader), size 2½ x ¾ in. x 19 in. long-double pointed, f.o.b. Tarboro.

WATER LEVEL TRANSMITTER and RECORDER—**Columbus, O.**—May 19, by Bd. Purchase, D. C. Westenhaver, secy., City Hall, water level transmitter and recorder for Karl Rd. Reserve Reservoir. $8,000.

SWITCHBOARD—**Westmount, Que.**—City Engineer in market switchboard for electrical power plant. $7,000.

CONTRACTS AWARDED

TRUCK—**Phoenix, Ariz.**—State Hy. Comn., Phoenix, 4 ton, 4-wheel drive truck with auxiliary motor snow plow and hoist, to Neil B. McGinnes Co., Phoenix, $10,083.

CONDENSER—**Colorado Springs, Colo.**—City Council, E. L. Mosley, mgr., 6,000 sq.ft. condenser for power plant addition, to Ross Heater & Mfg. Co., $10,790. Bids on 5,000 kw. turbine generator taken under advisement by city manager and Burns & McDonnell Eng. Co., engrs., 402 Interstate Bldg., Kansas City, Mo. Bids not taken on necessary building. Noted Mar. 31, under "Power Plants."

PUMP—**Chaska, Minn.**—City furnishing, installing 1 deep well turbine pump complete with motor, starter, etc., to R. B. Whitacre & Co., 205 South Robert St., St. Paul, $1,399. Noted Mar. 3.

VALVES—**St. Louis, Mo.**—St. Louis Water Dpt., City Hall, three 20 in. horizontal hub end valves, five 12 in. vertical tapping valves, seven 20 in., twenty 12 in., and fifty 8 in. vertical hub end valves, fifty 8 in. and one hundred fifty 6 in. hub end and spigot valves, to Michigan Valve & Fdry. Co., 3631 Parkinson Ave., Detroit, Mich., $6,290. Est. $8,000.

VALVES — **Milwaukee, Wis.** — Central Bd. Purchases, J. W. Nicholson, purch. agt., 20 four in. gate valves and 6 eight in. topping valves, to Columbia Iron Wks., 2129 Reading Rd., Cincinnati, O., at $11.28 each, total $221 with discount and $25.34 each, total $149 respectively; 600 six in. and 150 twelve in. gate valves, to G. E. Zimmermann, 1634 South 85th St., West Allis, $13.70 each, total $7,236 and $42 each, total $5,544 respectively; 75 sixteen in. gate valves, to Filer & Stowell, 147 East Becher St., $72.67 each, total $5,342. Grand total $18,492.

WATER METERS—**Toronto, Ont.**—East York Twp., 1,000 water meters, to Neptune Meter Co., Ltd., 345 Saurauren Ave., at $9.59 each.

FOREIGN

Argentina, La Plata—Argentine Govt., Buenos Aires, 2 refining units for lubricants and other oil distillates to Alco Products Co., 220 East 42nd St., New York.

Italy, Rome—Government, Rome, plans constructing University of Rome, on outskirts of city on ground adjacent to Policlinico. $3,650,000 government share of cost.

Mexico, Mexico City—Mexican Govt., Ministry of Finance, has placed project with National University, Mexico City, which will take bids and award contracts for program, incl. 30 schools, 20 for Mexico City and 10 in other cities which contribute to construction fund. $330,000.

Union Socialist Soviet Republic—Commissariat for Agriculture c/o Amtorg Trading Corp., 261 5th Ave., New York, constructing 31 power

Foreign (Continued)

stations, 95 sub-stations, and 20,000 windmills to generate power for farms. $17,000,000 appropriated. Above work is one year's program (1932).

Union Socialist Soviet Republics—Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, plans 250 ton daily capacity baking plant at Sverdlovsk; and 100 tons daily capacity each in Magnitogorsk, Nizhni Tagil and in Cheliabinsk, Ural Region. $5,500,000.

Union Socialist Soviet Republics—Soviet Government, c/o Amtorg Trading Corp., 261 5th Ave., New York, 5,000 cars annual capacity freight car building plant, Karzan, exceeds $1,000,000; machinery manufacturing plant, Karzan (Tatar Republic) $155,000,000; instrument manufacturing plant inc. workers dwellings, exceeds $1,000,000; meat packing plant, $1,290,000, all by day labor and technical aid contracts.

Commercial Buildings

PROPOSED WORK

Calif., Agnew—State of California plans by State Div. Architecture, Sacramento, fireproof pathological building, on State Hospital site. $150,000.

Calif., Hollywood—S. H. Kress & Co., 1031 South Bway., Los Angeles, awards general contract late in June, department store and storage building.

Calif., Los Angeles—Los Angeles Times, 100 North Bway., plans by G. B. Kaufman, 610 Union Bank Bldg., 6 story or more, 165 x 241 ft. newspaper building and garage, 4 elevators, sprinkling system, 1st and Spring Sts. To exceed $150,000. P. J. Walker Co., 1111 Garland Bldg., engrs. Noted Jan. 1, 1930.

Calif., Los Angeles—A. L. Stine, Wilshire Blvd. and Bronson Ave., sketches by R. H. Orr, 1300 Corporation Bldg., 11 story, basement office and garage in basement, Wilshire Blvd. and Bronson Ave. $500,000.

Calif., San Francisco—Regents of University of California, Berkeley, soon takes bids 7 story, basement, concrete, steel medical building, 2nd and Parnassus Aves. $500,000. Noted Oct. 1, 1931.

Colo., Boulder—City and Boulder Co. plans by G. Huntington, Boulder, rebuilding stone court house, destroyed by fire. $200,000.

Conn., Waterbury—St. Stanislaus Parish, S. Blazejowski, parish pastor, 98 East Farm St., plans by J. W. Donovan, Main St., 2 story, basement, 65 x 110 ft., brick, steel school. $150,000. Noted Sept. 24.

Fla., Sarasota—Kress Stores, 114 5th Ave., New York, lets general contract late in June (from bids submitted) department store and storage.

Ill., Chicago—Chicago-Hollywood Corp., Conrad Nagle, chn., c/o Century of Progress Exposition Bldg., Grant Park, for movie exhibit building, incl. complete theatre, 350 exhibits of industry, miniature replica of Hollywood Bowl, seating 3,500 people, also replica of Cocoanut Grove, on Northerly Island. $200,000. Holabird & Root, 333 North Michigan Ave., probable architects.

Ill., Chicago — Chrysler Corp., 341 Massachusetts St., Detroit, Mich., plans by Holabird & Root, 333 North Michigan Ave., exposition building, Lief Ericson Dr. and 31st St. $500,000. Noted Mar. 17.

Ill., Chicago—French Govt. plans in progress Exposition Building, modernistic design, composition siding, for Century of Progress Exposition, Administration Bldg., Grant Park. $200,000.

Ill., Chicago—Mexican Govt. plans Exposition Building for Century of Progress Exposition, Administration Bldg., Grant Park. $175,000.

Ind., Indianapolis—Fourth Church of Christ Scientist, sketches rein.-con., limestone church, Pleasant Run Blvd. and Butler Ave. $150,000. Architect not announced.

Ky., Louisville—Evangelical Hospital Assn., A. C. Kreiger, pres., plans by H. Wischmeyer, Heyburn Bldg., 5 story, basement, 166 ft. frontage, T shaped, rein.-con., brick, steel hospital, Shelby St. and Eastern Parkway. $275,000.

La., New Orleans—City Purchasing Agent soon takes bids Touro Shakespeare Almshouse, 2 and 3 story, rein.-con., brick, steel, stone, in Algiers. $200,000 appropriated. W. R. Burk, Balter Bldg., archt.

La., New Orleans—New Orleans Comn. Council plans by Diboll & Owen, Canal Bank Bldg., Milne Municipal Boys' Home. $200,000.

Mass., Boston—City, G. R. White Fund, E. R. Logan, mgr., City Hall, soon takes bids Health Unit 7, 3 story, basement, brick, stone, plain found., Vernon, Hampshire and Whittier Sts., Roxbury. $350,000. Coolidge, Shepley, Bulfinch & Abbott, Ames Bldg., archts. Noted Nov. 5.

Mass., Boston—City, Dpt. P. Bldgs., fire station, Longwood Sect., Roxbury. $300,000 appropriated.

Mass., Braintree—Town, D. E. Fisher, supt. schools, 2 story, basement, brick school, East Braintree Sect. $125,000-$150,000. Architect not appointed.

Mass., Brockton—St. Rocco's Roman Catholic Church, J. Svagdys, pastor, 20 Webster St., sketches by E. J. Laliberte, 86 Main St., 2 story, basement, brick parochial grade school, Webster and Fletcher Sts. $150,000 or more.

Mass., Brockton — Greek Orthodox Church, E. Triantofilides, pastor, plans by C. T. Olson, 101 Main St., brick, stone church, Warren Ave. $150,000. Noted Dec. 10.

Mass., Brookline—Town, reconstructing J. R. Runkle School, 2 story, basement, brick, Druce St. $150,000. Architect not appointed.

Mass., Eastham—Town, C. H. Pratt, supt. schools, Harwich, plans by Haynes & Mason, 232 Main St., Fitchburg, brick grade school. $150,000.

Mass., Leominster — All Saints Episcopal Parish, H. Price, chn. Building Comn., brick stone church. $150,000. Architect not appointed.

Mass., Longmeadow — City of Springfield, Storrs Library Assn., C. H. Bump, 878 Longmeadow St., plans by Smith & Bassette, 36 Pearl St., Hartford, Conn., library. $150,000.

Mass., New Marlboro—Town, Building Comn., H. A. Cook, sketches by Haynes & Mason, 15 Prospect St., Leominster, 2 story, basement, brick high and elementary school. $150,000. Noted Apr. 7.

Mass., North Adams—G. J. Nassif, c/o J. B. Stebbins, archt., 94 Liberty St., sketches store, apartment, Ashland and Summer Sts. $150,000.

Mass., Northampton — Smith College, Committee of Buildings in charge, plans further development general campus plan, incl. library addition, 7 dormitories, $250,000 each. **Maturity indefinite and dependent on financing.** More remotely planned projects are chapel, warden's house, physical science building, alumnae building, students' clubhouse and faculty club. To exceed $3,000,000.

Mass., Watertown—Town, C. L. Lovell, member of Building Com., new police station, Cross St. $150,000 or more. Architect not appointed.

Mass., Worcester — B. L. Handleman, 390 Main St., plans by Fuller & Delano Co., 44 Front St., remodeling banking quarters, 28-30 Franklin St. $150,000.

Mo., St. Louis—Premium Realty & Investment, c/o S. R. Baer, c/o Stix, Baer & Fuller Dry Goods Co., 6th and Washington Aves., sketches 2 story (ultimately 15 story) basement, 100 x 152 ft., rein.-con., brick, stone store, offices, Grand Blvd. and Olive St. Present 5 story Baer Hotel on site to be demolished.

N. J., Bayonne — Hudson County Parental School, M. Centereiner, supt., 1241 Hudson Blvd., sketches by C. H. Zeigler, 26 Journal Sq., Jersey City, 2 story, basement, brick, steel addition to girls' home, West 58th St. $150,000. **Maturity indefinite.**

N. J., Bradley Beach—Bd. City Comrs., 701 Main St., sketches rebuilding 1 story, basement, brick, stone, steel casino, Boardwalk between Newark and Park Pls. $150,000.

N. J., Caldwell—Bd. Boro Council, 12 Roseland Ave., plans by Guilbert & Betelle, 20 Branford Pl., Newark, 2 story, basement, brick, steel town hall, Plymouth St. $150,000. Rebuilding after fire. **Maturity soon.**

N. J., Cedar Knolls—Owner, c/o J. J. Vreeland, archt., 16 West Blackwell St., Dover, sketches 1 story, basement, brick, steel church. $150,000.

N. J., Dunellen—Bd. Educ., C. D. Nonemaker, pres., 1st St., sketches by Korff, Poggi & Bradgon, 203 Park Ave., Plainfield, 2 story, basement, brick, steel high school. $150,000. **Maturity indefinite.**

N. J., East Orange—Owner, c/o F. G. Hasselman, archt., 34 Prospect St., altering and constructing 3 story, basement, brick, steel store and apartment addition, 535 Main St. $150,000.

N. J., East Orange—M. Keating, c/o Mahnken & Schultz, archts., 256 Summit Ave., Union City, 2 story, basement, brick, steel store, office, plain found., 650 Central Ave. $150,000. **Maturity indefinite.**

N. J., East Orange—Krieger & Krieger, 467 Main St., rejected bids 4 story, basement, brick, steel apartment, Melmore Gardens and Lincoln St. $300,000. Warren & Warren, 31 Clinton St., Newark, archts. Noted Mar. 24.

N. J., East Orange—S. H. Kress & Co., 114 5th Ave., New York, rejected bids 2 story, basement, pent house, 71 x 120 ft. store, office building, Central Ave. $150,000. **Maturity in fall or later.** E. F. Sibbert, 114 5th Ave., New York, archt. Noted Apr. 14.

N. J., Elizabeth—Bd. Educ., 417 South Broad St., plans by H. B. Brady, Inc., 333 North Broad St., Boys Vocational School, 2 story, basement, brick, steel, stone. $150,000. **Maturity in fall.** Noted Feb. 25.

N. J., Englewood—Owner, c/o C. G. Mettberg, archt., 16 Depot Sq., sketches 6 story, basement, steel store, office, Palisade Ave. $250,000. Noted May 5.

N. J., Freehold — Owner, c/o M. A. Wolf, archt., 845 Broad St., Newark, 2 story, basement, brick, steel academy. $150,000. **Maturity soon.**

N. J., Forked River—Bd. Commerce & Navigation, State House, Trenton, sketches administration building, also dredging, bulkheading basin 268 ft. wide, 2 T docks, and 1 plain dock, Forked River Creek. $150,000. V. Gelineau, Trenton, state engr.

N. J., Hackensack—J. H. Liebou, archt., 238 Main St., new bids in June, clubhouse, South Main and Pink Sts., for Societa Santa Croce Camerina, c/o architect. $150,000. Noted Apr. 28.

N. J., Hackensack—Bd. Educ., 355 State St., sketches by L. C. Licht, 4 Dean St., Englewood 2 story, basement, brick, steel, stone addition to Dwight Morrow High School. $150,000. **Maturity indefinite.**

N. J., Hasbrouck Heights—Hasbrouck Heights Hospital Assn., converting apartments into hospital and constructing additional buildings to form hospital group, 125 Terrace Ave. To exceed $150,000. Architect not appointed. Noted Dec. 10.

N. J., Jersey City—W. T. Grant Co., 1441 Bway., New York, soon lets general contract 2 story, basement, 75 x 200 ft., brick, steel store, office, Newark Ave. and Barrow St. $250,000. P. A. Cummus, 1441 Bway., New York, archt. Bids on mechanical equipment about June 1. Noted Nov. 19.

N. J., Madison—Bd. City Council, 2 Green Village Rd., soon takes bids general contract 2 story, basement, 65 x 150 ft. community building, with two 2 story, wings, 50 x 55 ft. wings, Kings Rd. between Green and Maple Sts. $150,000. R. S. Shapter, 382 Springfield Ave., Summit, archt. Noted Apr. 28.

N. J., Millburn—Bd. Educ., High School, revised sketches by E. Sibley and G. M. Cady, 1034 Edgewood Lane, Palisade, 2 story, basement, brick, stone, steel, South Mountain Estates. $150,000. Noted Dec. 10.

N. J., Metuchen—J. S. Dowell, 113 Market St., Perth Amboy, sketches 3 story, basement, 85 x 95 ft. mausoleum, Grove, New York, Upland and Delaware Aves. $375,000.

N. J., Montclair—Owner, c/o Siegler & Greenberg, archts., 164 Market St., Newark, rejected bids 3 story, basement, brick, steel store, apartment, Bloomfield Ave. $150,000. Noted Jan. 28.

N. J., Newark—Owner, c/o Fanning & Shaw, archts., 49 Ward St., Paterson, altering and constructing 2 story, basement, brick, steel rein.-con. church, Mulberry St. $150,000.

N. J., Newark—Newark Memorial Hospital, F R. Haussling, pres. medical staff, 340 Bank St., plans by Guilbert & Betelle, 20 Branford Pl., 10 story, basement, brick, steel hospital, Newton and Bank Sts. $1,000,000. **Maturity spring 1932.**

N. J., Newark—E. H. Fougner, archt., 197 Market St., rejected bids altering 6 story, basement, brick, steel store, office, 197 Market St., for A. J. Gumersell, 390 Mount Prospect Ave., $150,000. Noted Apr. 21.

N. J., Newton—G. E. Steinback, archt., 157 West 74th St., New York, soon lets general contract 2½ story, basement, brick, steel, stone missionary training school, for Little Flower Monastery, M. Heinlein, in charge. $150,000. Bids after May 15, plumbing, heating and ventilating. Noted Apr. 14.

N. J., Orange — Owner, c/o F. L. Pierson, archt., 160 Bloomfield Ave., Bloomfield, 4 story, basement, brick, steel store, apartment, Oakwood Ave. and Webster Pl. $150,000. **Maturity soon.**

N. J., Passaic—Passaic City Club, Prospect St., sketches by Preiskel & Skvarla, 629 Main Ave., 2 story, basement, brick, steel club house. $150,000. **Maturity indefinite.**

N. J., Paterson—T. J. Folks, archt., 488 East 33rd St., bids in July, general contract altering and constructing 2 story, basement, brick, steel church addition, Marshall St., for St. Ann's Church, C. A. Anid, pastor, 235 Mill St. Est. $150,000. Noted Dec. 3.

N. J., Plainfield—H. L. Securities Co., 425 Park Ave., revised sketches 6 story, basement, brick, stone, steel medical center, stores, Arlington Ave. and West 7th St. $200,000.

N. J., Princeton—Princeton University sketches made by A. Embury, 150 East 61st St., New York, 3 story, basement campus center, incl. offices, restaurant. $400,000. **Maturity indefinite.**

N. J., Ridgefield — St. Matthews Roman Catholic Church, Ridgefield, plans 2 story, basement, brick, steel, stone school, hall, Hillside St. $150,000. **Maturity indefinite.** Architect not appointed.

N. J., Ridgefield — Neighborhood Baptist Church, R. R. Demarst, pastor, Shaler Blvd., 2 story, basement, brick, steel church, Oakdene Ave. and Edison St. $150,000. **Maturity indefinite.** Architect not appointed. Property purchased.

N. J., Somerville—B.P.O.E., West End Ave., and Korf, Poggi & Bragdon, archts., 275 Morris Ave., Elizabeth, bids in July, general contract altering and constructing 1 and 2 story, basement, 75 x 150 ft. club addition. Noted Apr. 21.

N. J., Somerville—Somerset Co. Bd. Educ., Court House, 2 story, basement, brick, steel vocational school. $150,000. **Maturity indefinite.** Architect not appointed.

N. J., Southern—Trenton Catholic Dioceses, Trenton, sketches by G. W. Brooks, 216 Smith St., Perth Amboy, 2 and 3 story, basement church, school, auditorium. $150,000 or more.

N. J., Summit—F. W. Woolworth Co., Franklin Trust Bldg., Phila., Pa., rejected bids altering and constructing 1 story, basement, brick, steel store addition, 407-09 Springfield Ave. $150,000. **Maturity indefinite.** Noted Apr. 7.

N. J., Summit—Bd. Educ., 272 Morris Ave., Jefferson School, 2 story, basement, brick, steel, Ashwood Rd. $150,000. **Maturity indefinite.** Architect not appointed.

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Commercial Buildings (Continued)

N. J., Union City—Owner, c/o J. G. Helmers, archt., 147 Summit Ave., sketches rebuilding 2 and 3 story, basement, brick, steel store, office, apartment, Paterson Plank Rd. $150,000.

N. Y., Albany—Bd. Educ., bids early in June, new wing for P. S. 14. $175,000. Architect not appointed.

N. Y., Brooklyn — Brooklyn Children's Museum, Brooklyn Ave. and Park Pl., J. J. Schoonhoven, in charge building com., 3 story, 250 x 250 ft. children's museum. $750,000. **Maturity indefinite.**

N. Y., Cohoes—Y. M. C. A. bids in June, 80 x 140 ft., brick building, concrete found. C. H. Concord, ch. com.

N. Y., Hollis — Bd. Educ., 500 Park Ave., New York, plans by C. W. Martin, Flatbush Ave. extension and Concord St., Brooklyn, addition to P. S. 33, 92nd Ave. and 222nd St. To exceed $150,000.

N. Y., New York—Bd. Educ., 500 Park Ave., soon takes bids addition to P. S. 86, Reservoir Ave. and West 195th St. W. C. Martin, Flatbush Ave. extension and Concord St., Brooklyn, archt. Noted July 2.

N. Y., New York—New Manhattan Apartments, Inc., 551 5th Ave., structural steel for 12 story, 100 x 103 ft. apartment, to Lehigh Structural Steel Co., Allentown, Ia. Owner soon lets other separate contracts. Noted Apr. 14.

O., Conneaut—Knights of Pythias new club house to replace one destroyed by fire. $150,000. **Maturity indefinite.**

O., Hamilton—Bd. Educ., C. Holdefer, clk., soon lets contract Junior High School, 3 story, basement, brick, stone, concrete, $400,000. Former contract rescinded. F. G. Mueller, Rentschler Bldg., archt. G. W. Barkman, 3rd and High Sts., assoc. archt. Noted Nov. 12, under "Contracts Awarded."

O., Xenia—St. Bridget Roman Catholic Congregation, plans by Crowe & Schulte, 2436 Reading Rd., Cincinnati, 2 story, basement, 40 x 110 ft., brick, stone church, 2nd and West Sts. $200,000. **Maturity indefinite.**

Pa., Bellefonte—Bell Telephone Co. of Pennsylvania, 416 7th Ave., Pittsburgh, plans by J. T. Windrim, Commonwealth Bldg., Phila., 1 story, basement, 35 x 60 ft., brick, steel exchange. $500,000, incl. equipment.

Pa., Erie—Mercyhurst College and Seminary c/o Sisters of Mercy, 501 East Cooper Mill Rd., soon lets general and mechanical contracts 2 story, basement, 55 x 110 ft. and 6 story, 45 x 50 ft., brick, stone, tile chapel, steel casement sash, confessionals, copper work, kalamein doors, bronzework, East Cooper St. and Mill Rd. Noted Mar. 10.

Pa., Houston — Bd. Educ. Chartiers Twp., Rural Delivery 1, Washington, G. Arthur, secy., Junior and Senior High School, brick, steel, near here. $150,000. Architect not appointed.

Pa., McKeesport — St. Marys Congregation, Father Pireswski, pastor, Versailles Ave., plans by A. Pyzdrowski, 3412 Fleetwood St., Pittsburgh, 2 story, basement, 86 x 116 ft., brick, stone, steel school and convent. $150,000.

Pa., Pittsburgh—Commonwealth of Pennsylvania, Dpt. Welfare, Education Bldg., Harrisburg, A. F. Liveright, secy., sketches by L. Stevens, Century Bldg., brick, steel psychiatric hospital, O'Hara and De Sota Sts. $2,000,000.

R. I., Providence—Cranston St. Roger Williams Baptist Church, Y. A. King, pastor, 81 Parade St., community house, Cranston and Ford Sts. $150,000. Architect not appointed.

Tex., San Antonio — Bd. Educ., final plans completed and approved by School Bd. and now receiving competitive bids 2 story, 245 x 310 ft., brick, rein.-con. high school, incl. gymnasium, athletic field, plain found., Pine, Astor and Fair Sts. $750,000. Phelps & DeWees, Gunter Bldg., archts. R. H. Cameron, Majestic Bldg., and G. Willis, Builders Exch., assoc. archts. J. K. Beretta Engineers, Natl. Bank of Commerce Bldg., structural engrs. W. E. Simpon, Milam Bldg., consult. engr.

Wis., Juneau—Bd. Educ., E. A. Clifford, clk., plans by Smith & Brandt, 201 East College Ave., Appleton, brick grade and high school. $150,000. Noted Jan. 21.

Wis., Manitowoc—Holy Innocents Catholic Congregation, E. A. Radey, pastor, rein.-con., brick church. $150,000. Architect not appointed.

Pa., McKeesport—See "Schools."

Wis., Stevens Point—St. Stephens Catholic Congregation, G. Casey, pastor, 635 Clark St., 2 story, basement, brick, rein.-con. school. $150,000. Architect not appointed.

Man., Winnipeg—Syndicate, represented by Major J. W. Hawker, archt., 236 Curry Bldg., plans 100 homes. $400,000.

BIDS ASKED

La., New Orleans—June 13, by Bd. Administrators Charity Hospital of Louisiana, 8 story, basement, 80 x 100 ft., rein.-con., steel, brick, limestone convalescent home, Tulare Ave. Total $600,000. Wess, Dreyfous & Seiferth, Maison Blanche Bldg., archts. Noted Feb. 4.

Me., Orono—University of Maine, H. Boardman, pres., plans by Crowell & Lancaster, 6 State St., Bangor, and takes bids about June 1, two 2 story, 50 x 125 ft., brick art and science wing additions. $150,000. Noted Apr. 14.

Mass., Foxboro—May 19, by Commonwealth of Massachusetts, Dpt. Mental Diseases, brick female ward, Foxboro State Hospital. $150,000. E. C. Luce, Jr., 87 Beacon St., Boston, archt. Noted Jan. 28.

Mass., Medford—First Natl. Bank, 1 Salem St., taking bids altering and constructing 2 story, basement, brick, stone, concrete bank addition, plain found., Salem Et. $150,000 or more. Hutchins & French, 11 Beacon St., Boston, archts.

Mass., Medford—May 17, at Mayor's Office, 2 story, basement, brick, stone fire stations, plain founds., 1 at Fulton St. Station and other at Wellington St. Station. $150,000. F. I. Cooper Corp., 47 Winter St., Boston, and M. A. Dyer St., 1 Beacon St., Boston, archts. Noted Apr. 21.

Mass., Newton—Andover-Newton Theological Institution, E. C. Hendrick, pres., 169 Institution Ave., taking bids 3 story, basement, brick, stone, steel dormitory for married students, plain found., on campus. $150,000. Kendall, Taylor & Co., 142 Berkley St., Boston, archts. Noted Apr. 7.

Mass., Weymouth—May 17, by Town, P. T. Pearson, supt. schools and H. B. S. Prescott, archt., 12 Pearl St., Boston, 2 story, basement, 50 x 100 ft., brick, stone school, plain found., Weymouth Heights Sect. $150,000. Noted Dec. 3.

Minn., Glencoe—May 19, by Bd. Educ., E. H. Jungclaud, clk., 3 story, basement, rein.-con., brick, stone school. $220,000. Rose & Harris, 430 Oak Grove St., Minneapolis, archts. Noted Dec. 17.

Minn., Minneapolis—May 19, by State, c/o Comn. Administration and Finance, C. R. Erickson, comr. Purchases, Capitol, St. Paul, part 4 and part 6 story, basement, rein.-con., brick nurses' home, State University, Campus. $300,000. C. J. Johnston, 369 Robert St., St. Paul, archt. Pillsbury Eng. Co., 1200 2nd Ave. S., engrs.

N. H., Hooksett—May 18, by Mt. St. Mary's Academy, M. DeLa Salle, and Maginnis & Walsh, archts., Statler Bldg., Boston, Mass., altering and constructing 1 and 2 story, basement, brick, chapel and auditorium addition, plain founds. $150,000. Noted Dec. 10.

N. J., Kearny—May 14, by Grace Methodist Episcopal Church, F. S. Mead, pastor, 384 Kearny Ave., taking bids general contract 2 story, basement, tower church, and 2 story, basement, brick, steel educational building, Kearny Ave. and Liberty St. $150,000. C. G. Jones, 133 Academy St., Belleville, archt. Noted Apr. 28.

N. J., Passaic—D. Zaritzky, 695 Main Ave., and Preiskel & Skvarla, archts., 629 Main Ave., taking bids rebuilding 3 story, basement, brick, steel store, office and restaurant, Main Ave., Garden and Henry Sts. $150,000. Noted Apr. 21.

N. J., Passaic—Polish People's Home, 1 Monroe St., and J. T. Camlet, archt., 27 Piaget Ave., Clifton, bids about May 23, general and separate contracts altering and constructing 2 story, basement, brick, steel home addition, Monroe St. $150,000. Noted Apr. 21.

N. J., South Orange — See "Contracts Awarded."

N. Y., Auburndale—See "Contracts Awarded."

N. Y., Flushing—See "Contracts Awarded."

N. Y., Hillsdale—May 16, by Bd. Educ. Central School Dist. 1, Southeast Columbia Co., at Ancram, or Tooker & Marsh, archts., 101 Park Ave., New York, Roeliff Jansen School. $295,000.

N. Y., New York—H. O. Chapman, archt., 6 East 45th St., bids about May 16, general contract 8 story, library, 17 East 47th St., for Mercantile Library, 17 East 47th St. $350,000. Noted Mar. 17.

N. Y., New York—See "Contracts Awarded."

N. Y., Otisville—May 19, by Bd. Educ., E. H. Moore, clk., 2 story, basement, brick, steel high school addition. $150,000. E. P. Valkenburgh, 7 Linden Ave., Middletown, archt.

Vt., Brattleboro—May 17, by Brattleboro Retreat, H. G. Ripley, supt., 3 story infirmary. $150,000. H. K. White, 19 West 44th St., New York, archt. $150,000.

Alta., Edmonton — Wise Estate, c/o G. T. Bragg, representative, 10053 Jasper Ave., taking bids rebuilding 4 story hotel to replace Corona Hotel, 10635 Jasper Ave., destroyed by fire last February. $250,000. Macdonald & Magoon, 834 Tegler Bldg., archts.

CONTRACTS AWARDED

Calif., Altadena—Sisters of St. Joseph, Orange, 5 story, basement hospital, by segregated contracts under supervision J. K. Doolan, 432 Security Bldg., Los Angeles. Former contract rescinded. Est. $300,000. Noted May 14, under "Contracts Awarded."

Conn., Fairfield—St. Emory's Roman Catholic Church, c/o B. Biro, pastor, 1 story, basement, 50 x 100 ft., brick, steel church, rectory, to E. & F. Constr. Co., 94 Wells St., Bridgeport. Noted Mar. 24.

Ill., Chicago—Century of Progress, Administration Bldg., Grant Park, 3 story general exhibition building, modernistic design, metal and composition siding, steel frame, to B-W Constr. Co., 720 North Wabash Ave. $300,000. Noted Mar. 31.

Mass., Fall River—St. Mathews Parish, G. F. Cain, pastor, 82 St. Marys St., 3 story, basement, brick convent, to S. Boucher, 479 Whipple St. Est. $150,000. Noted Mar. 17.

Mass., Springfield—Springfield Safe Depo & Trust Co., 1200 Main St., 4 story, 50 x 1 ft., brick, stone bank, to A. E. Stephens, 12 Main St. Est. $350,000. Noted Apr. 14.

Mich., Detroit — Detroit Y. M. C. A., 22 Witherell St., 4 story, basement, 81 x 160 brick, rein.-con., steel, stone branch buildi plain found., to Bryant & Detwiler Co., 28 Guaranty Bldg. Est. $200,000. Noted Mar. 1

Mo., St. Louis—St. John Cantius House Studies, c/o Roman Catholic Congregation Resurrection, J. Jacobi, 3689 West Pine Blv 4 story, basement, 48 x 160 ft. rein.-con., bri chapel, dormitory, 3689 West Pine Blvd., to B. Deal & Co., Inc., 1218 Olive St.

Mo., St. Louis—Holy Innocents Roman Catholic Parish, L. A. McAtee, pastor, 5317 Reb Pl., general contract 2 story, basement, bri concrete parochial school, Reber Pl., to C. M Gill, 4226 Juniata St. Plans now being revis

N. H., New London—Colby Junior Colleg H. L. Sawyer, pres., 3 story, brick, steel dormitory, to Cummings Constr. Co., 14 Prospect St Ware, Mass. Est. $150,000. Noted Apr. 21.

N. J., Bayonne—Hudson County Parental School, 1241 Hudson Blvd., 2 story, basement, brick, steel chapel, garage, Hudson Blvd., by student labor. $150,000. C. H. Ziegler, 2 Journal Sq., Jersey City, archt. Noted Nov. 1

N. J., Bloomfield—H. Dodd Estate, Inc., c/o W. O. Bartlett, archt., 1172 Raymond Blvd., Newark, general contract 1 story, basement, brick, steel store, to Mahoney Troast Constr. Co., 657 Main Ave., Passaic; plumbing, to W. Baxter, 15 Grace St.; heating, to G. Stewart, 270 South 20th St., Newark; electrical work, to Shaw Electric Co., 102 Central Ave., Newark. Est. $150,000. W. T. Grant Co., 1441 Bway., New York, lessee.

N. J., Carlstadt—Bd. Educ., C. Brown, pres., School 1, general contract 2 story, basement, 60 x 125 ft., brick, steel grade and junior high school, to C. J. Smith & Co., 202 Academy St., Trenton, plumbing, to Buist & Sons, Inc., 178 George St., New Brunswick; heating and ventilating, to Reisler Heating Co., 129 Amsterdam Ave., New York; electrical work, to Badaracio Bros. & Co., 403 Washington St., Hoboken; steel and iron works, to Hudson Structural Iron Wks., Inc., foot Henderson St., Jersey City. Est. $150,000. Noted Apr. 7.

N. J., East Orange—Essex Real Estate & Constr. Co., P. Brodenson, in charge, 487 South Orange Ave., general contract 3 story, basement, brick, steel apartment, garages, to J. E. Crone, 66 Roseville Av., Newark. Est. $150,000. Noted Apr. 7, under "Contracts Awarded."

N. J., Jersey City—W. T. Grant Co., 1441 Bway., New York, general contract 2 story, basement, 75 x 200 ft., brick, steel store, office, Newark Ave. and Barrow St., to Deakman-Wells Co., 921 Bergen Ave. Est. $250,000. Noted May 12.

N. J., Mount Bethel—Bd. Educ., J. F. Mundy, pres., Warren Twp., general contract 2 story, basement, 128 x 128 ft., brick, stone school, to State Building, Inc., 810 Broad St., Newark. Est. $150,000. Noted Apr. 21.

N. J., Orange—DePace & Juster, archts., 151 West 46th St., New York, general contract 1 story, basement, balcony, brick, steel, stone church and rectory, South Center and Hurlburt Sts., to D. J. Cronin, 713 South Orange Ave., Newark, for Our Lady of Mount Carmel, A. Rasi, pastor, 103 South Centre St. Est. $150,000. Contractor soon lets separate contracts. Noted Jan. 7.

N. J., South Orange—Suburban Apartment Corp., J. Vinick, 3988 Hudson Blvd., Union City, 3 story, basement, brick, steel apartment, 180 Irvington Ave., separate contracts. $150,000. Former bids rejected. M. Kraut, 3010 Hudson Blvd., Jersey City, archt. Owner taking bids on tile and marble. Noted Jan. 28.

N. Y., Auburndale—Rodeng Building Corp., 19916 Hollis Ave., Hollis, apartment, 194th St. and 46th Ave., separate caontracts. $150,000. Private plans.

N. Y., Flushing—Heriman Holding Corp., 93 Main St., 6 story, 106 x 117 ft. apartment, Northern Blvd. and 154th St., separate contracts. $200,000. J. Unger, 93 Main St., archt.

N. Y., Geneva—Trinity Episcopal Church, H. O. Palmer, ch. com., rebuilding church, to Fenno Constr. Co., 339 Winton St., Syracuse, to exceed $150,000. Noted Apr. 18.

N. Y., Holland—Central School Dist. 1, general contract 2 story, basement, 120 x 274 ft., brick, steel school, to Lakeland Constr. Co., Electric Bldg., Buffalo. $143,000. Noted Apr. 7 Daily.

N. Y., New York—A. L. Hartridge & Co., contractors, 570 Lexington Ave., 5,500 tons steel for 25 story office, to McClintic Marshall Co., Oliver Bldg., Pittsburgh, Pa., for Insurance Co. of North America. Contractor soon lets additional sub-contracts. Noted Dec. 10, under "Contracts Awarded."

N. Y., New York—Toby & Hughes, 250 8th Ave., 9 story, 69 x 74 ft. apartment, 43 East 10th St., day labor and separate contracts. $150,000.

N. Y., New York—New York Academy of Medicine, 5th Ave. and 103rd St., medical research and library, 5th Ave. and 103rd St., to Marc Eidlitz, 100 East 42nd St., structural steel and erecting, to Ingalls Iron Wks., 117 Liberty St., New York. Est. exceeds $500,000. Owner soon lets other separate contracts.

Pa., Leetsdale—D. T. Watson Home for Crippled Children, J. M. Freeman, atty. and chairman of bd., 450 5th Ave., Pittsburgh, brick, Commercial Buildings—(Continued)

steel hospital, to J. L. Stuart, Oliver Bldg., Pittsburgh, est. $250,000.

Pa., Pittsburgh—W. T. Grant Co., 1441 Bway., New York, H. T. Williams, in charge constr., 2 story, basement, brick, tile, architectural terra cotta, granite, rein.-con. store, to Martin & Nettrour, Daimond Bank Bldg. Est. $150,000. Noted Apr. 28.

R. I., Auburn—St. Matthews Parish, J. F. Sullivan, pastor, 1 story, 72 x 135 ft., brick, limestone church, Elmwood Ave. and Park St., to E. Turgeon, 36 Exchange St., Providence. Est. $150,000. Noted Feb. 25.

R. I., Cranston (mail Providence)—Diocese of Providence, W. A. Hickey, pastor, St. Mathews Parish, 1 story, basement, brick, granite, stone church, plain found., to E. Turgeon, 36 Exchange St., Providence. Est. $150,000. Noted Nov. 19.

Wis., Plymouth—School Bd., general contract Junior and Senior High School, to Bentley Bros., 1828 West Pierce St., Milwaukee, $194,000. Noted Mar. 24.

Man., Winnipeg—City, Chairman Special Com. on Unemployment Relief Works, City Hall, structural steel for auditorium, to Dominion Bridge Co., Ltd., 702 Canada Bldg. Noted Jan. 28.

Ont., Alfred—Christian Brothers, 984 Cote St., Montreal, industrial school, to Farley & Grant, Bank National Bldg., Ottawa. $200,000.

Industrial Buildings

PROPOSED WORK

Ariz., Kingman—MILLING PLANT—Anizira Mining & Milling Co., 500 ton milling plant, other improvements, on Company's property. $600,000.

Ariz., Prescott—CONCENTRATING MILL—National Exploration Co., 150 ton concentrating mill on Midnite property, Groom Creek Dist. A. L. Blackburn, Prescott, engr. Noted Apr. 21.

Calif., Bakersfield — REFRIGERATION PLANT—Owner, c/o E. J. Symmes, archt., Haberfelde Bldg., sketches 1 story, rein.-con. refrigeration plant. $50,000.

Calif., Fresno — BEVERAGE PRODUCTS PLANT — California Raisin Products Corp., leased Fresno Brewery, and plans remodeling same, installing electric refrigeration plant and bottling machinery.

Calif., Los Angeles — ELECTRICAL DISTRIBUTION STATION—Los Angeles Dpt. Water & Power, T. Oughton, city purch. agt., soon lets contract 2 story, basement, 50 x 95 ft., 20 room, rein.-con., cast stone, 6776 Hawthorne Ave. $110,000.

Calif., Richmond—CREAMERY—Golden State Co. Ltd., 425 Battery St., San Francisco, fireproof creamery, San Pablo Ave. $60,000. Private plans.

Calif., San Francisco—FACTORY—Kraft-Phenix Cheese Corp., of California, 962 Battery St., sketches 3 story concrete addition. $40,000. Private plans.

Calif., Van Nuys — CEMENT PRODUCTS PLANT—J. D. Gregg, cement products plant, near here. $750,000. **Maturity soon.**

Idaho, Caldwell—PACKING PLANT—Idaho Meat Producers Co-operative Inc., sketches meat packing plant. $200,000. Architect not appointed.

Ill., Chicago—MANUFACTURING PLANT—Murine Co., Inc., 9 East Ohio St., sketches 2 story, basement, 25,000 sq.ft. floor spaee, Berteau and East Ravenswood Sts. $100,000. Architect not appointed.

Ill., Springfield—POWER PLANT IMPROVEMENTS—See "Contracts Awarded."

Ill., Whitehall—POWER PLANT—City plans municipal electric light and power plant, $70,000. Russell & Axon, 6200 Easton St., St. Louis, Mo., consult. engrs. Noted Mar. 24.

Ind., Alexandria—POWER PLANT—City plans municipal electric light and power plant, $40,000. J. W. Moore, Knights of Pythias Bldg., Indianapolis, engr.

Ind., Lagrange — CONDENSED MILK PLANT — Gordon Baking Co., brick, steel condensed milk plant. $100,000. Private plans. New equipment required.

Ind., Terre Haute—ICE MANUFACTURING PLANT—Vigo Ice & Cold Storage Co., 120 North Water St., reconstructing plant. $40,000.

Ia., Oelwein — ENGINE HOUSE — Chicago Great Western R.R. Co., Grand Central Station, 122 South Michigan Ave., Chicago, Ill., C. G. Delo, ch. engr., improvements, addition to engine house. $100,000.

Kan., Salina — GARAGE — Cardinal Stage Lines, rebuilding service station and garage, destroyed by fire. $50,000.

La., Abbeville—WAREHOUSE, etc.— Louisiana Distributing Co., Abbeville, subsidiary Pure Oil Co., 35 East Wacker Dr., Chicago, Ill., and 420 Lexington Ave., New York, bulk storage warehouse and distributing plant. $75,000.

Mass., Brookline—GARAGE—Town, Bd. Selectmen, garage, rear of police station. $40,000 or more. Noted Oct. 1.

Mass., Reading—GARAGE—Town, altering and constructing 1 story, municipal garage addition, Ash St. $40,000.

Mass., Revere—BULK OIL STORAGE, etc.—Tidewater Oil Co., 17 Battery Pl., New York, soon lets separate contracts bulk oil storage and distribution plant on 42 acre tract. Site acquired.

Mass., Springfield—PRODUCE TERMINAL—New York, New Haven & Hartford R.R. Co., E. E. Oviatt, New Haven, Conn., ch. engr., remodeling freight houses and sheds for produce terminal, Columbus Ave. $45,000. J. Lepovetsky, 58 Narragansett St., lessee.

Mich., Birmingham—OIL STORAGE, etc.—Standard Oil Co. of Indiana, 1011 4th St., Detroit, bulk oil storage and distribution plant. $40,000.

Mich., Cement City—CEMENT MANUFACTURING PLANT—Consolidated Cement Co., repairing plant, damaged by fire. $50,000. Engineers not appointed.

Minn., Minneapolis — SERVICE SHOP and OFFICE—General Electric Realty Co., 120 Bway., New York, completing plans 3 story, basement, 210 x 220 ft., rein.-con., brick, stone, Washington Ave., South to 2nd Sts., from 12th to 13th Aves. S. $500,000. General Electric Co., River Rd., Schenectady, N. Y., and 630 1st Natl.-Soo Line Bldg., lessee. Noted Feb. 16.

Minn., Red Wing—POWER HOUSE, etc.—City soon takes bids constructing power house, power distribution system, turbo-generators, boilers, and reconditioning present city system. $800,000. R. J. Torrens, 630 Shubert Bldg., St. Paul, engr. Noted Apr. 28.

Miss., Gulfport—WAREHOUSES—See "Piers and Wharves."

Mo., Kansas City — OIL STORAGE, etc. — Union Oil Co., 17th and Iron Sts., 3 story, bulk oil storage and distribution warehouse. $60,000.

Mont., Butte—STORAGE—Standard Oil Co. of Indiana 910 South Michigan Ave., Chicago, Ill., distribution and bulk storage, Front St. and Kaw Ave. $50,000.

Neb., Omaha—MILL, etc.—Allied Mills, Inc., J. B. DeHaven, vice pres., 29th and B Sts., rebuilding rein.-con. mill and elevator building. $350,000 loss.

N. H., Concord—GARAGE, etc.—Arnanosian Oil Co., West Concord, rejected bids 1 and 2 story, brick garage, storehouse. $40,000. N. Simons, 33 North Main St., archt. Will readvertise. Noted Feb. 25.

N. J., Bayonne—OIL TANKS, etc.—Hartol Products Co., lessee, 117 Liberty St., New York, bids after Aug. 1, oil tanks and bulk storage, Bergen Point. To exceed $40,000. Noted Apr. 28.

N. J., Elizabeth — LUMBER FACTORY — Elizabeth Lumber Co., M. Goldberg, in charge, 1057 East Grand St., plans completed by J. Anderson, 251 North Broad St., and takes bids about June 15, general contract 2 story, basement, brick, steel, East Grand St. $40,000. Noted Jan. 28.

N. J., Hoboken—TERMINAL—Seatrain Lines, Inc., G. M. Brush, pres., c/o Hoboken Mfgrs. Railroad Co., foot 5th St., terminal to facilitate loading of trains, foot 14th St. $150,000. **Maturity indefinite.** Private plans.

N. J., Madison—DISTRIBUTING PLANT—Castle Ice Cream Co., 53 East Blackwell St., Dover, 2 story, basement, brick, steel, Waverly Pl. $40,000. **Maturity indefinite.**

N. J., Montclair—AUTO SERVICE STATION—Globe Realty Co., 790 Broad St., Newark, plans by F. P. Friedman, 9 Clinton St., Newark, 1 story, basement, brick, steel, stone, Bloomfield Ave. and Valley Rd. $40,000.

N. J., Newark—WAREHOUSE—Alliance Investment Co., 790 Broad St., revised plans completed by T. C. Hughes, 15 Central Ave., altering and constructing 2 story, basement, brick, steel, warehouse, Ogden and Rector Sts. $40,000. Noted Dec. 31.

N. J., Newark — GARAGE — G. E. Jones, archt., 24 Commerce St., rejected bids Feb. 1, 1 story, basement, garage and office, Lister Ave. and Esther St., for International Excavating Co., 537 Raymond St. $150,000. **Maturity indefinite.** Noted Jan. 28.

N. J., Newark—FACTORY—Owner, c/o H. C. Hammel, archt. and engr., 130 Branford Pl., sketches brick, steel. $40,000.

N. J., Newark—GARAGE—Owner, c/o A. Peter, archt., 207 Market St., sketches 2 story, basement, brick, steel, Avon Ave. $40,000.

N. J., Newark—LAUNDRY—Garrabrants & Zumbrisch, archts., 380 Main St., East Orange, soon take bids altering and constructing 1 story, basement addition, South 16th St., for Royal Laundry Service, Inc., 771 South 16th St, $40,000.

N. J., Paterson—FACTORY—J. S. Royal, c/o Lee & Hewitt, archts., 152 Market St., revised sketches 2 story, basement, brick, steel, rein.-con., Straight St. $75,000. Noted Aug. 6.

N. J., Perth Amboy — BOILER HOUSE — Raritan Cooper Wks., reconstructing boiler house and installing boilers, Elm and Market Sts. To exceed $40,000.

N. J., Pine Brook—STORAGE, etc.—Pine Brook Lumber Co., A. Sher, in charge, Pine Brook, replacing lumber storage and mill, Bloomfield Ave., **destroyed by fire.** To exceed $40,000.

N. J., Plainfield—GARAGE—Owner, c/0 C. C. Bell, archt., 8 South Ave., Cranford. **Maturity soon.** 1 story, basement, brick, steel, stone garage. $40,000.

N. J., Westfield—GARAGE—C. J. Angelo, 509 Center Ave., 2 story, basement, brick, steel garage, 218 West North Ave. $40,000. Engineer and architect not appointed. **Maturity indefinite.**

N. Y., Brooklyn—STORAGE—Reliable Van & Storage Co., Bay 19th St. and Bath Ave., bids in August, altering and extending storage, Bay 19th St. and Bath Ave. Former bids rejected. A. Goldberg, 164 Montague St., archt. Noted Feb. 18.

N. Y., East Northport—PICKLE PLANT—East Northport Pickle Wks., rebuilding plant destroyed by fire. $40,000. **Maturity indefinite.**

N. Y., Long Island City — STORAGE SHED, etc.—G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., plans by L. Lorell, c/o owner, 1 story, 18 x 24 ft. timber, metal storage shed and shop, 45th and Vernon Aves., and 22 x 67 ft. at 32nd Ave. and Downing St.

N. Y., Long Island City—GARAGE, etc.—A. Fresca, 84-44 85th Ave., Woodhaven, plans by J. Rofrano, c/o owner, 2 story, 34 x 72 ft. service garage, store, Paulina Rd. and Margaret Pl.

N. Y., Long Island City—GARAGE, etc.—H. H. Anthony, Inc., 3159 12th St., plans by V. Schiller, 30-64 41st St., Astoria, 1 story, 30 x 30 ft. brick garage; 17 x 30 ft. service and repair shop, and 1 story masonry shed, Vernon Blvd. and 31st Dr.

N. Y., Long Island City—SERVICE STATION, etc.—Springfield-Petroleum Corp., 1772 Southern Blvd., New York, plans 1 story, 21 x 97 ft. service station and repair shop, Merrick Rd. and Farmers Blvd. Private plans.

N. Y., New York—STORAGE, etc.—A. F. Darrin, archt., 101 Park Ave., soon takes bids 6 story, storage, store, 101 East 39th St., for Corp., c/o architect. $140,000.

N. Y., New York — STORAGE, etc. — P. Gandolfo, 578 Madison Ave., sketches by R. Candella, 578 Madison Ave., 4 story, 75 x 100 ft. storage, office, 109 East 106th St. $100,000.

N. Y., New York — CHEMICAL PLANT — Electric Chemical Engraving Co., 1100 Brook Ave., storage building, in or near vicinity. Est. $40,000. **Maturity indefinite.**

N. Y., New York—STORAGE, etc.—S. Haddock, 1133 Bway., soon lets separate contracts storage, boiler room and flue, also new plumbing, 51 Orchard St. $40,000. A. J. Simberg, 1133 Bway., archt. Noted Apr. 21.

N. Y., New York—STORAGE, etc.—Jodur Corp., J. Durst, pres., 358 5th Ave., altering lower floors of 2 stores and loft building, also providing bank quarters on ground floor, 12 and 14 story, 100 x 111 ft. storage, showroom and store building, 358 5th Ave. $75,000. H. M. Clawson, 40 East 49th St., archt.

N. Y., New York—GARAGE—Julemore Co., M. Galt, pres., 277 Bway., altering 1 story, 100 x 200 ft. service garage, incl. removing front walls, walling and enclosing gasoline storage tanks, 9th Ave. and 204th St. N. Langer, 81 East 125th St., engr. and archt.

N. Y., New York—GARAGE—J. Lavazoli, 308 West 68th St., plans by J. E. Geissberger, 103 Park Ave., altering 2 and 3 story, 43 x 100 ft. service garage, 263 West 69th St. To exceed $40,000.

N. Y., New York—STORAGE, etc.—Lyman G. Realty Corp., c/o Levy & Berger, archts., 375 Fulton St., Brooklyn, 1 story, 80 x 80 ft., brick, concrete storage and store, 1113 2nd Ave.

N. Y., New York—STORAGE, etc.—S. B. Silverman, 125 Canal St., sketches by G. B. Webb, 10 East 43rd St., 2 story, 37 x 75 ft. storage and loft, 18 Allen St. and 63 Canal St.

N. Y., New York—POWER PLANT, etc.—Spingler Electric Corp., c/o Smith, Chambers & Clare, 60 Bway., electric power plant and distribution system to serve area 13th to 15th Sts., Union Square and University Pl. West to 5th Ave. To exceed $25,000. Application made to Pub. Serv. Comn.

N. Y., New York—GARAGE—H. W. Thedford, 270 Riverside Dr., plans by C. Schaefer, Jr., 332 East 14th St., altering 2 story to 4 story, 25 x 100 ft. service garage, 307 West 44th St.

N. Y., Wellsville—POWER PLANT, etc.—Elmira Water, Light & Railroad Co., Huellet Bldg., Elmira, power plant and electric distribution system. To exceed $40,000. Pub. Serv. Comn. authorized project.

O., Cincinnati—YARD SERVICE BUILDING—H. M. Waite, ch. engr., Cincinnati Union Terminal Co., 1020 Temple Bar Bldg., soon lets contract 3 story, 42 x 492 ft., brick, steel, Union Terminal. $270,000. Private plans.

O., Cleveland—MANUFACTURING PLANT—Cleveland Heater Co., Locust Ave., plans by G. S. Rider, Marshall Bldg., 1 and 2 story, 100 x 140 ft. and 100 x 200 ft. manufacturing plant additions. To exceed $60,000.

O., Columbus—PACKING PLANT—A. H. Kiner Packing Co., 1080 East Hudson St., rebuilding packing plant, damaged by fire. To exceed $40,000. Architect not appointed.

O., Eaton—LIGHT PLANT—City Council repealed ordinance declaring necessary erection municipal light plant and ordinance providing issuance $233,000 mortgage bonds. City could not sell bonds. Fosdick & Hilmer, Union Trust Bldg., Cinciniati, engrs. Noted Apr. 14.

O., Piqua — MANUFACTURING — Piqua Handle & Mfg. Co., rebuilding woodworking and

Buildings—Industrial (Continued)

novelty manufacturing plant, destroyed by fire. $40,000. **Maturity indefinite.**

O., Struthers — WAREHOUSE, etc. — D. Toriello & Sons, replacing warehouse, grocery and office, destroyed by fire. To exceed $40,000.

Okla., Perry—PRODUCE PLANT—Company organizing, c/o C. J. Wolaver, brick, concrete plant. $150,000.

Ore., Odell—WAREHOUSE—Apple Growers Assn. and American Fruit Growers Assn., replacing warehouse and fruit packing plant, destroyed by fire. $75,000.

Pa., Corry—DAIRY—Model Dairy Co., A. Gulick, mgr. in charge, Smith St., bids soon (invitation only), general contract 1½ story, basement, 80 x 100 ft., brick, tile, concrete, Smith St. and West Wayne Ave. Brazil & Anderson, 309 4th Ave., Pittsburgh, archts.

Pa., Glenshaw — WAREHOUSES — Glenshaw Glass Co., A. Barner, pres., Lower Rd., sketches 1 story, corrugated metal and steel frame, Lower Rd. $100,000 to $200,000 fire loss. **Maturity soon.** Private plans.

Pa., New Castle—MILL—Citizens Lumber Co., White St., rebuilding 1 story, 80 x 150 ft., brick, steel lumber mill, White St., destroyed by fire; purchasing modern milling machinery. E. Wilson, treas.

Pa., Phila.—GARAGE, STORAGE and ASSEMBLY ROOM—International Business Machines Corp., 270 Bway., New York, leased 4 story building and plans altering, equipping same for brnach distribution service and storage. $40,000.

Tex., Longview—COMPRESSOR STATION—United Gas Pub. Serv. Co., Rusk Bldg., Houston and Longview, granted permit construction of compressor station, 4 units, 165 hp. each. $60,000. Private plans.

Tex., San Antonio—CREAMERY—Mistletoe Creamery Co., c/o G. W. Maggard, mgr., 219 Austin St., plans by Atlee B. & Robert M. Ayers, Smith Young Tower Bldg., 2½ story, brick, stone, rein.-con., Jones and Broadway Sts. $50,000. Noted Mar. 17.

Utah, Park Valley—ORE MILL—Utah Gold Milling & Mining Co., Salt Lake City, 150 ton ore mill. $40,000. F. W. McIntyre, Salt Lake City, engr.

Va., Pulaski — WOODWORKING PLANT — Pulaski Hardwood Flooring Co., rebuilding woodworking plant, destroyed by fire. $40,000.

Wis., Auburndale—MILK PRODUCTS PLANT—Owner, c/o G. A. Krasin, archt., Marshfield, 1 story, basement, 80 x 424 ft., rein.-con. plant and equipment. $40,000.

Wis., Green Bay — CLEANING PLANT — Walkers Cleaners Co., 404 West Walnut St., rein.-con., brick dry cleaning plant with equipment. Engineer not appointed.

Wis., Milwaukee—PLANT—Lemke Electric Co., 635 North 8th St., rebuilding plant, destroyed by fire. $40,000.

Wis., Milwaukee—TRANSIT SHED—Bd. Harbor Comrs., C. U. Smith, genl. mgr. and ch. engr., transit shed, $75,000; railway tracks and turnouts, $33,500; roads and driveways, $7,500.

Wis., Wausau—PLANT—Underwood Veneer Co., O. C. Lemke, mgr., Thomas St., rebuilding rein.-con., brick, Thomas St., recently destroyed by fire. Architect not appointed.

Wyo., Casper—WAREHOUSE, etc.—Tristate Rapid Transit Inc, c/o I. J. Clark, Casper, local representative, 3 story, basement, 100 x 100 ft. warehouse and car storage, also to be used as a bus station.

Alta., Coutts—REFINERY—Northwest Stellarene Co., soon lets contract reconstructing refinery for manufacture of anti-knock gasoline, refining equipment, etc. **$150,000.**

Man., Winnipeg—HEATING PLANT—City, City Hydro, 55 Princess St., J. W. Sanger, engr., extending steam heating plant. Work will be probably done by owner. $40,000. H. A. Morton, 55 Princess St., purch. agt.

Ont., Kitchener—FACTORY—Wunder Furniture Co., M. Wunder, 280 Victoria St., rebuilding furniture factory, partly destroyed by fire. $100,000 loss. Interested in prices of woodworking machinery.

Que., Lachine—MACHINE SHOP—Jenkins Bros. Co. Ltd., 617 St. Remi St., Montreal, plans by Ross & MacDonald, 1 Belmont St., Montreal, machine shop. To exceed $40,000.

Que., Port Alfred—PULP MANUFACTURING PLANT, etc.—Consolidated Power & Paper Corp., Port Alfred, plans rebuilding part or all of firedamaged property, incl. yards, timber storage for pulp manufacturing, transportation facilities, etc. Loss exceeds $3,000,000. **Maturity indefinite.**

BIDS ASKED

Ind., Columbus—LIGHT PLANT—May 21, City, F. Owens, clk., steel, brick municipal light plant, new equipment, installing generators, Diesel engines. $40,000. J. W. Moore & Son, 835 Pythian Bldg., Indianapolis, engrs.

Mass., Lynn—WAREHOUSE—See "Contracts Awarded."

Mo., Farmington—SHIRT FACTORY—May 18, by Chamber of Commerce, Farmington, and Rice-Stix Dry Goods Co., 1000 Washington Ave., St. Louis, at mayor's office, Farmington, general contract 2 story, part basement, 100 x 135 ft. brick, joist, concrete found. $50,000. J. Boehmer, c/o owner, archt.

N. J., Jersey City—REFRIGERATOR PLANT—M. C. Provision Co., 414 Hoboken Ave., taking bids general and separate contracts altering 1 story, brick, steel, Hoboken Ave. $40,000. Construction Service Corp., 80 Broad St., Elizabeth, archts.

N. J., Millville—GAS PLANT and OFFICE—Ford, Beacon & Davis, engrs. and archts., 39 Bway., New York, taking bids general contract 2 story, basement, brick, steel addition, 2nd St., for Cumberland Co. Gas Co., Millville. $40,000. Noted Mar. 17, under "Contracts Awarded."

N. Y., Brooklyn—GARAGE—See "Contracts Awarded."

N. Y., Brooklyn — DRY DOCK and SHIPBUILDING PLANT—See "Contracts Awarded."

N. Y., Brooklyn—GARAGE—M. and R. Du-Britz, Empire Blvd. and New York Ave., bids about May 15, general contract 35 x 68 ft. service garage, Empire Blvd. and New York Ave. J. A. Boyle, 367 Fulton St., archt. Noted Apr. 21.

N. Y., Brooklyn—GARAGE—Bee Line Realty Corp., H. B. Carter, pres., Nassau St., Rockville Center, bids after May 15, general contract 2 story bus terminal, Albee Sq. and Fleet St. H. R. Harvie, 370 7th Ave., New York, archt. Noted Apr. 21.

N. Y., Brooklyn—STORAGE—C. Hobacker, Glenmore Ave. and Berriman St., taking bids altering and constructing 1 story storage addition. W. C. Winters, 2772 Fulton St., archt. Noted Feb. 25.

N. Y., Long Island City—POULTRY MARKET—See "Contracts Awarded."

N. Y., New York—FACTORY—W. S. Gregory, archt., 180 Madison Ave., bids taking, altering 8 story, basement, sub-basement factory, incl. removing certain elevators, installing 2 new elevators at different locations, 18 Washington Pl., for New York University, 32 Waverly Pl. $80,000. Noted Apr. 21.

Tenn., Lexington—SHIRT FACTORY—May 18, by City, c/o W. H. Holland, mayor, 1 story, 125 x 240 ft., brick, concrete, steel sash, mill construction. J. F. Parish, 112 Johnson St., Jackson, archt. Salant & Salant, Inc., 476-482 Knickerbocker Ave., Brooklyn, N. Y., lessee. Noted Feb. 4, under "Martin, Tenn."

Wis., Auburndale—MILK PRODUCTS PLANT—W. Byrners, taking bids 1 story, basement, 42 x 80 ft., rein.-con., brick. $40,000. G. A. Krasin, Marshfield, archt. Noted May 5.

CONTRACTS AWARDED

Calif., Avon—OIL REFINERY—Associated Oil Co., oil refinery to Foster-Wheeler Co., 165 Bway., New York. Est. exceeds $40,000. Noted Apr. 28.

Colo., Denver—SERVICE STATION—Flash Service, Inc., c/o Colorado Realty Co., 321 North Santa Fe Ave., 125 x 226 ft. concrete, brick, steel, Santa Fe Ave. between 5th and 6th Sts. $125,000. Owner builds. Private plans.

Conn., Middletown—ICE CREAM MANUFACTURING PLANT—Linbrook Ice Cream Co., 88 Center St., 1 story, 50 x 70 ft., brownstone, brick, to J. H. Mylchreest, 50 Brainerd Ave. Noted Apr. 14, under "Contracts Awarded."

Ind., Crawfordsville — PLANT — Farmers Produce Co., general contract 1 story, basement, 30 x 165 ft., steel plant. $40,000. Owner builds. Private plans.

Ia., Ottumwa—PACKING PLANT—John Morrell & Co., general contract 6 story, basement, 120 x 160 ft., rein.-con., brick, to Theodore Stark Constr. Co., 1103 1st Ave. S.W., Cedar Rapids. Est. $400,000. This corrects report in Apr. 28 issue.

Ia., Sioux City—ICE PLANT—Palmer Candy Co., 1 story, 50 x 150 ft., concrete, brick, 207 Douglas St., owner builds, local labor; brick contract, to Sioux City Brick & Tile Co., 200 United Bank Bldg.; cork insulation, to Armstrong Cork Co., 117 North Canal St., Chicago, Ill.; ice making machinery, to York Ice Mchy. Corp., 1113 Cornelia Ave., Chicago, Ill., structural steel, to Haakinson & Beaty Co., 2nd and Nebraska Sts.; steel sash, to Otto Bridge Co., 504 Jackson St.; roofing, to National Roofing Co., 2025 4th St. Total est. $60,000.

Ill., Springfield—POWER PLANT IMPROVEMENTS—City Council, 10,000 kw. turbine, to General Electric Co., Schenectady, N. Y., $156,500; completing plans, probably take bids soon on boiler and condenser. Burns & McDonnell Eng. Co., 406 Interstate Bldg., Kansas City, Mo., engrs. Noted Feb. 25.

Mass., Cambridge—PLANT—Lever Bros. Co., 164 Bway., 2 story, brick plant addition, laboratory and tower, plain found., to F. LeRoy Fox, Inc., 101 Milk St., Boston. Est. $40,000.

Mass., Lynn—WAREHOUSE—Atlantic Building Wrecking Co., 656 Broad St., 1 story, 50 x 250 ft., brick, cement warehouse. $40,000. Owner builds. J. Schwartz, 25 Central Ave., archt.

Mass., Springfield—SERVICE STATION—Sanford Tire Corp., J. S. Coughlan, lessee, 34 Sanford St., 1½ story, 30 x 116 ft., 30 x 73 ft. and 4 story tower, blue glazed, brick trim, super tire service station, auto accessories, etc., Gardner and Main Sts., to D. M. Dowd Co., 29 Sa ford St., $50,000. Est. $40,000. Noted Feb. 2

Mass., Worcester—OIL TERMINAL—Coloni Beacon Oil Co., 30 Beacham St., Everett, offic garage, tanks and warehouse for oil terminal, t C. O. Olsson, 515 Massachusetts Ave., Cambridge. Est. $45,000. Noted Apr. 21.

N. J., Freehold—AUTO SERVICE STATIO—Standard Oil Co. of New Jersey, C. W Crowell, in charge, 185 Washington St., Newark general contract altering and constructing story, basement, brick, stucco, steel addition plain found., East Main and Spring Sts., to H Constr. Co., 12 Huline St., Mt. Holly. Es $40,000.

N. J., Hoboken—PAPER FACTORY—Heind & Dauch, 253 Water St., Sandusky, O., general contract 1 story, basement, 160 x 700 ft., brick steel, to Otto Randolph, Inc., 53 West Jackson Blvd., Chicago, Ill. Est. $400,000. Note Apr. 28.

N. J., Newark—BEEF COOLER—Stadler Eng Co., archts., 140 Liberty St., New York, general contract 1 story, basement, brick, steel, to Essex Constr. Co., 9 Hackett St., for L. Schloss, Inc. foot Astor St. $40,000. Noted Mar. 24.

N. J., Rahway—DRUG and CHEMICAL FACTORY—Merck & Co., Lincoln Ave., general contract 1 and 2 story, basement, brick, to R. E Lamb, 841 North 19th St., Phila., Pa.; heating to Jensen & Rodner, Fords; electrical work, to Beach Electric Co., Inc., 81 Wallace St., Newark; structural steel, to Savary & Glaiser, Dunellen. Est. exceeds $150,000. Noted Apr. 4

N. Y., Long Island City—POULTRY MARKET—Twenty-Seven Oregon Street Corp., 315 5th Ave., New York, poultry market, Borden Ave and 46th St., separate contracts. Private plans.

N. Y., Brooklyn — DRY DOCK and SHIPBUILDING PLANT—Todd Dry Dock & Eng Co., foot 23rd St., altering dry dock and shipbuilding plant, foot 3rd St., day labor and separate contracts. To exceed $40,000. **Maturity soon.** Noted Apr. 7.

N. Y., Brooklyn — LAUNDRY — Humboldt Service Laundry, Inc., 47 Humboldt St., awarded general contract altering and extending 2 story, brick, frame building and 3 story building for laundry, Vare and Humboldt Sts. Contractor's name withheld. Address owner. B. Chester, 26 Court St., archt. Noted Apr. 21.

N. Y., Brooklyn—PLANT—National Meter Co., 299 Bway., New York, altering plant and elevators, North 9th St. and Kent Ave., to Amer. Elevator & Machine Corp., 113 Cedar St., New York.

N. Y., Brooklyn—GARAGE—Rames Realty Corp., W. Volman, pres., 222 Eagle St., 1 story, 50 x 100 ft. service garage, India and Oakland Sts., day labor and separate contracts. Noted Apr. 21.

N. Y., Middletown—PRODUCE WAREHOUSE etc.—Zwick & Schwartz, 12 Union St., general contract 1 story, basement, 100 x 135 ft., brick, steel produce warehouse and refrigeration, to Trojan Constr. Co., 374 Bedford Ave., Brooklyn. Est. $40,000. Noted Mar. 17.

N. C., Durham—MILL—Erwin Cotton Mills, Durham, 64 x 100 ft., brick addition to Erwin Cotton Mills 4, to Muirhead Constr. Co., Durham.

O., Cincinnati—WAREHOUSE — Cincinnati Union Terminal, Temple Bar Bldg., installing underground drainage for coal yard, to G. W. Wade, Cincinnati, $28,000; installing drainage for mail and express yard, to Crumley, Jones & Crumley Co., Temple Bar Bldg., $21,000; substructure of southeast connection to terminal facilities, to Maxon Constr. Co., $53,000; installing compressed air equipment, to Ingersoll-Rand Co., 11 Bway., New York, $25,000. Grand total $127,000. Noted Apr. 21.

O., Cleveland—OIL STORAGE, etc.—Standard Oil Co., Midland Bank Bldg., bulk oil storage and distribution plant, to Austin Co., 16112 Euclid Ave. Est. $40,000.

O., West Carrollton—PAPER MILL—West Carrollton Parchment Co., plant addition, to C. H. Shook, c/o owner. $40,000.

Okla., Lawton—ICE PLANT—Owner, c/o G. Dale, archt., 307 Koehler Bldg., general contract 1 story, brick, concrete, to Q. R. Shelton, 1324 1st Natl. Bank Bldg., Oklahoma City, machinery and equipment, to Frick Co., Amer. Natl. Bank Bldg., Oklahoma City, plumbing, to D. E. Andrews, Lawton. Est. $40,000.

Tenn., Lawrenceburg — SHIRT FACTORY — City, c/o J. H. Stribling, building comr., 1st Natl. Bank Bldg., 1 story, 140 x 220 ft., concrete, brick, mill construction, steel sash, owner builds, day labor; brick contract, to E. O. Brown, Lawrenceburg. Salant & Salant, Inc., 476-482 Knickerbocker Ave., Brooklyn, N. Y., lessee. Noted Apr. 7.

Wis., West Allis—SHOP—Allis Chalmers Mfg. Co., West Allis, and 50 Church St., New York, 1 story, 50 x 70 ft. shop addition, to Meredith Bros., 153 Washington St., Milwaukee. Est. $40,000 incl. equipment.

Man., Winnipeg—HYDRO-ELECTRIC SYSTEM—City, City Hydro, 55 Princess St., J. W. Sanger, ch. engr. and R. H. Andrews, electrical engr., extending and constructing additions to hydro-electric system. Work to be done by Owner's Engineering Dpt., 55 Princess St. $400,000. H. A. Morton, 55 Princess St., purch. agt.

See proposal advertising on page 64

CONSTRUCTION NEWS

SECTION OF ENGINEERING NEWS-RECORD—MAY 19, 1932

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WATERWORKS

PROPOSED WORK

Calif., Los Angeles—The report of the consulting board of engineers, on proposed aqueduct to be constructed by Metropolitan Water Dist., has been submitted to directors of the District. The first unit started in San Jacinto Tunnel 13 mi. long. Test borings in Granite Mountain Section to continue. Approval of Parker Site for diversion dam. Approval of plans for Hayfield reservoir, about 80 mi. west of Colorado River. Recommendations as follows: long tunnel instead of short tunnel line along Little San Bernardino Mountain; that near Whitewater the Aqueduct be divided into two half capacity units (tunnels) for about 2 mi.; obtaining of bids in near future from power companies in order that power may be had in anticipation of needs before construction starts. This will allow ample time, in event that power contracts are unsatisfactory, to permit the construction of Diesel electric plants; Caljalco reservoir is of sufficient capacity to meet demands for reserve storage; purchase of storage space in Pine Canyon Reservoir (now under construction by City of Pasadena). T. Merriman, 346 Bway., New York, chn. F. E. Weymouth, ch. engr.

Ind., Marshall—State of Indiana, Dpt. Conservation, Indianapolis, completed plans pumping station and water mains at Turkey Run Park, near here. $15,000. C. Brossman, Chamber of Commerce Bldg., Indianapolis, engr.

Ind., St. Meinard—St. Meinard Academy plans waterworks. $15,000. C. Brossman, Chamber of Commerce Bldg., Indianapolis, engr.

Ia., Atlantic—City Council preliminary plans watermains, $5,000; new boilers, $20,000; extensions to electric distribution system, fixtures, $10,000. Private plans.

Ia., Gowrie—City complete water filtration plant.

Pa., Chambersburg—Boro, 90 m.g. impounding dam to serve as auxiliary to city water supply, voted down for present. R. C. Vanderau, burgess. Noted Nov. 12, 1931.

Man., Winnipeg—City, waterworks and renewing water mains $50,000; also constructing new watermains $50,000. W. P. Brereton, 223 James Ave., engr.

BIDS ASKED

Ariz., Prescott—Taking bids 4,500 tons sand also gravel for Upper Goldwater Dam. Expect to build dam by day labor. $150,000. Contract for 1,600 tons cement awarded A. J. Kline, city engr. Noted Jan. 7.

Calif., San Francisco—June 6, by Pub. Utilities Comn., constructing Coast Range Tunnel in connection with Hetch Hetchy Water Project, 28.6 mi. long. $6,500,000 bonds voted. Noted Mar. 31.

Ky., Ludlow—June 5, by City Council, waterworks, incl. pumping station, reservoir, water softening plant, main extensions. $120,000. Gazier & Morlidge, 403 Broeman Bldg., 3rd and Walnut Sts., engrs. Noted Dec. 3.

N. Y., Poughkeepsie—June 1, by Dpt. Mental Hygiene, State Office Bldg., Albany, water supply, repairing filters at Hudson River State Hospital. $37,813. F. W. Parsons, comr.; adv. E. N.-R. May 19.

Okla., Oklahoma City—See "Materials."

Wash., Aberdeen—See "Contracts Awarded."

Wash., Centralia — City Comrs. bids about May 24, repairing city gravity water system, incl. replacing pipe line. $25,000.

Wash., Tacoma—See "Contracts Awarded."

CONTRACTS AWARDED

Ala., Tuscaloosa—City, filter equipment, to E. W. Bacharach Co., 207 Rialto Bldg., Kansas City, Mo., $14,904; structural work, to J. O. Holloman, Tuscaloosa, $24,698. Noted Mar. 10.

Calif., San Francisco—S. J. Hester, secy. Dpt. P. Wks., City Hall, constructing Crystal Springs Aqueduct Supply Pipe Line, incl. welded steel pipe, to Western Pipe & Steel Co., 444 Market St., $25,789. Noted Apr. 21.

Md., Baltimore—State Roads Comn., installing, backfilling and middle service main in Hillin Rd. and Clifton Park, to M. and J. B. McHugh, 3716 Sequoia Ave., Baltimore, $42,074.

Mass., Medfield—Dpt. Mental Diseases, State House, Boston, constructing pumping station at State Hospital, to H. C. Hanson, 49 Pond St., Jamaica Plain, $8,937; furnishing equipment, to Rideout Chandler & Joyce, 130 Broad St., Boston, $13,390. Noted May 5.

Minn., Ely—A. O. Knutson, city clk., furnishing materials, constructing 1½ m.g. rein.-con. covered reservoir, to M. M. Christianson, 178 West Summit Ave., St. Paul, $34,863. Noted Apr. 21.

N. Y., Hawthorne—Hawthorne Water Dist., 15 mi. 6- to 16-in. c.i. pipe, to Bergen Contg. Co., Grantwood, N. J., $295,393. Noted Feb. 11.

N. Y., Watervliet—K. V. Moran, city clk., repairing filteration plant, to American Water Softener Co., 4th and Leigh Aves., Phila., Pa., $27,000. Noted Apr. 28.

N. D., Williston—City, general contract waterworks improvements, to Western Constr. Co., Williston, $51,968; filter equipment, to E. W. Bacharach, 207 Rialto Bldg., Kansas City, Mo., $9,450; clarifier, to Dorr Co., 247 Park Ave., New York, $3,360; pumping equipment, to Allis-Chalmers Co., West Allis, Wis., $2,375. Grand total $67,153.

O., Cleveland—City, one 1 m.g. steel plate tank in Euclid, to Northern Boiler Co., West 86th St. and Big Four tracks, $5,896; one 2 m.g. steel plate tank for Garfield Heights, to McClintic Marshall Co., Hanna Bldg., $13,400. Noted Apr. 21.

Wash., Colfax—City, furnishing 5,597 ft. 8 in. and 2,370 ft. 6 in. c.i. pipe for replacing mains in Thorn and James Sts., to Hughes & Co., 119 Howard St., Spokane, $8,000, by force account, $9,000, bids on same rejected.

Wash., Tacoma—City, 6- to 12-in. c.i. pipe to replace wooden main in South 56th St., day labor. $10,000. Noted May 5.

Alta., Calgary—City Council, steel water tank at 21st Ave., to Dominion Bridge Co., Ltd., 803 24th Ave., $59,700.

SEWERS

PROPOSED WORK

Conn., Waterford—State preparing plans, bids early in June sewage disposal system at Seaside Sanatorium. $35,000. J. F. Lynch, 578 Campbell Ave., West Haven, engr.

Conn., Wethersfield — Metropolitan Planning Dist., 1026 Main St., Hartford, trunk line sanitary sewers, both sides Walcott Hill and Ridge Rds. $100,000. C. Saville, Metropolitan Comn., engr.

Ill., Cary—City Council, plans in progress sewage disposal plant addition, $20,000. **Maturity in fall.** A. L. Webster, Wheaton, engr.

Ill., Waukegan—North Shore Sanitary Dist., 1st Natl. Bank Bldg., preliminary plans completed sewage treatment plant. **Maturity indefinite.** Pearse, Greely & Hansen, 6 North Michigan Ave., Chicago, engrs.

Ill., Waukegan—North Shore Sanitary Dist., 1st Natl. Bank Bldg., preliminary plans completed sewage treatment plant, Winthrop Harbor. $40,000. Pearse, Greely & Hansen, 6 North Michigan Ave., Chicago, engrs.

Kan., Herrington—City, sewage disposal plant. $25,000. Black & Veatch, 700 Mutual Bldg., Kansas City, Mo., engrs.

Mo., St. Louis—City, Bd. P. Serv., City Hall, preliminary plans Kingshighway and Lake Avenue Sewer to service district bounded by Kingshighway and Union Blvds. Kensington Ave. to Lindell Blvd. $150,000. W. W. Horner, city engr.

N. Y., New Castle—J. J. Dunne and C. H. Sells, Inc., town engrs. submitted report to Town Board recommending installing 17.6 mi. sewerage system, in Chappaqua drainage area. $623,000.

O., Cleveland—Bd. Comrs. Cuyahoga Co., preliminary plans sewage disposal plant Rocky River Dist. $250,000. W. J. Rogers, Ulmer Bldg., engr.

Wash., Seattle—Bd. P. Wks. soon takes bids 43rd Street Intercepting Sewerage System, incl. 7,700 ft. 15 and 18 in. vitr. clay pipe from Denny Blaine Pl. on Lake Washington, along lake shore. $100,000. E. French Chase, city sanitary engr. Noted Oct. 8.

Man., Winnipeg—Preparing plans sewers. $50,000 appropriated. W. P. Brereton, 223 James Ave., engr.

Ont., Toronto—City, 12 in. and up vitr. tile sewers in sections of lane near Manning Ave. $4,320; Basin Ave., Salter and Bouchette Sts. $38,920. R. C. Harris, City Hall, engr.

BIDS ASKED

Calif., San Francisco—May 25, by S. J. Hester, secy. Dpt. P. Wks., Sect. E Fillmore Street Main Sewer, incl. 1,600 ft. 5 ft. 3 in. circular rein.-con. sewer, 1,799 ft. 3 ft. 6 in. x 5 ft. 3 in. rein.-con. sewer, 153 ft. 3 ft. x 4 ft. 6 in. rein.-con. sewer, culverts, junction structures. $77,000.

Ind., Berne—City Council bids about July 1. 2,000 ft. intercepting sewers, pumping station, Imhoff tank, sludge bed. $35,000. C. Brossman, Chamber of Commerce Bldg., Indianapolis, engr. Noted Dec. 17.

Md., Baltimore—May 25, by Bd. Awards, sanitary sewers and storm drains in miscellaneous sewer districts in Storm Water Contr. 176, 740 lin.ft. 6 x 6 ft. rectangular rein.-con. pipe drain; 2,295 lin.ft. 24- to 27-, 36-in. rein.-con. pipe drains; 7,000 lin.ft. 6- to 24-in. vitr. pipe drains; 4,080 lin.ft. 4 and 6 in. underdrains; 300 lin.ft. standard manholes; 3,800 sq.ft. vitr. clay liner plates or vitr. brick. G. E. Finck, Municipal Bldg., sewerage engr.

Mass., Boston—May 24, by Dpt. P. Wks., sewerage works in Reith and Capitol Sts., West Roxbury. $25,000. J. A. Rourke, comr. Dpt. P. Wks.

Mass., Boston—May 25, by Dpt. P. Wks., sewerage works in Roslindale Brook, West Roxbury. J. A. Rourke, Dpt. P. Wks., comr.

Mass., Boston—May 26, by Dpt. P. Wks., sewerage works in Carol Ave., Brighton; May 31 in Coleman St., Dorchester. J. A. Rourke, Dpt. P. Wks., comr.

Mass., Swampscott—June 2; by Town, furnishing, installing shafts, piping, valves, etc., Humphrey St. Pumping Station. W. Pratt, Town Hall, engr. Noted May 5.

N. Y., Buffalo—May 24, by Bd. Educ., City Hall, new tile sewer at East High School, running east on Northampton St., south on East Parade St., then west on North Parade St. and connecting with main sewer.

N. Y., Delhi—May 24, by Dpt. Education, Education Bldg., Albany, sewers and water lines, at State School Agriculture. F. P. Graves, comr.; adv. E. N.-R. May 19.

N. Y., New York—May 24, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in Greystone and Olinville Aves.

N. Y., New York—May 26, by S. Levy, pres. Manhattan Boro, Municipal Bldg., sewer in New street from Pearl to Duane Sts. and in Duane St.

N. Y., North White Plains—Town bids about July 11, sewer construction, connections to Bronx Valley Sewer, at Parkway Gardens. $150,000-$175,000. J. N. Heeney, White Plains, engr.

N. Y., Ossining—May 31, by Dpt. Correction, State Office Bldg., Albany, sewers and water lines at Sing Sing Prison. $18,005. Former bids rejected. Noted Apr. 14.

Pa., Harrisburg—May 23, by H. A. Sherk, dir. Streets and P. Impvts., constructing, laying 3,800 lin.ft. c.i. sewer in Allison Hill Dist. 65, Contrs. 1, 2 and 3.

Ont., Hamilton—See "Contracts Awarded."

CONTRACTS AWARDED

Ill., Elgin—City, and Pearce, Greeley & Hansen, engrs., 6 North Michigan Ave., Chicago, sewage disposal plant additions and improvements, to E. M. Scheflow, Elgin, $46,000. Noted Mar. 17.

Mass., Boston—Dpt. P. Wks. and J. A. Rourke, comr., sewerage works, Haywoods Brook, Laurel and Ottawa Sts., Roxbury, to J. F. Kennedy & Co., 197 Sidney St., Cambridge, $52,457. Noted Apr. 28.

N. Y., New York—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in Colden Ave., to A. Caserta, 2440 Barns Ave., $5,030; in West 253rd St., to State Contg. Co., 922 Nepperham Ave., Yonkers, $41,126. Noted Apr. 7.

N. Y., West Haverstraw — Dpt. Health, T. Parran, Jr., comr., State Office Bldg., Albany, sewers and water lines at New York State Reconstruction Home, to C. Alberto, 1580 Oxford St., Paterson, N. J., $41,663. Noted Apr. 21.

N. Y., White Plains—Westchester Co. Sanitary Sewer Comn., Court House, 2,500 ft. 42 and 48 in. rein.-con sewer, Sect. Q-2, Mamaroneck Project, Mamaroneck, to M. J. Driscoll, White Plains, $71,000. Noted Mar. 31.

Tex., Dallas—City, c/o J. N. Edy, mgr., constructing Mill Creek Storm Sewer, to P. C. Sorenson, Grand Rapids, Mich., $365,606. Est. $513,000. Noted Apr. 21.

See proposal advertising on page 64

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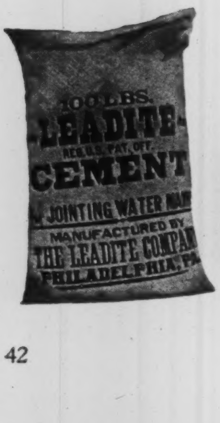

No Caulking

Sewers (Continued)

Wis., Watertown—City, sewage disposal plant, to Moas Bros., Watertown, $24,932; sewers, to Glowe Constr. Co., Wauwatosa, $32,597.

Ont., Hamilton—City Council, pipe sewers, Lumsden, Gage and Fennell Aves., day labor under supervision W. L. McFaul, city engr. $45,000.

BRIDGES

PROPOSED WORK

Connecticut—J. A. Macdonald, state hy. comr., Hartford, rejected bids concrete girder bridge, approaches, Norwich. $35,000. Noted May 12 under "Streets and Roads, Contracts Awarded."

Ill., East St. Louis—City of St. Louis, Mo., c/o Bd. Pub. Serv., 208 City Hall, St. Louis, Mo., plans complete South Valley Approach to St. Louis Municipal Bridge over Mississippi River, incl. southerly double-track connection between eastern railroad approach to St. Louis Municipal Bridge and Illnoiis Transfer R.R. at 21st St., 2,700 ft. long, incl. earth removal and fills, rein.-con. piers, abutments, retaining walls, structural steel construction here. C. E. Smith & Co., 1752 Railway Exch. Bldg., St. Louis, Mo., engrs.

Ia., Greenfield—Adair Co. rejected bids constructing 90 x 18 ft. pony truss bridge, 75 x 16 ft. pony truss bridge on creosoted piling, 50 x 18 ft. I-beam bridge, two 40 x 18 ft. and one 28 x 18 ft. I-beam bridges. Steel contract awarded to Pittbsurgh-Des Moines Steel Co., Tuttle and Southwest 10th Sts., Des Moines, $5,223.

Texas and Mexico—Owner, c/o J. E. Howler, consul, Matamaros, Mexico, rein.-con., steel bridge over Rio Grande River, connecting Boca Chica Beach, Tex., with beaches on Mexican side. $150,000. Address Consul.

Wash., Spokane—Preliminary plans 1,600 ft. bridge over Spokane River, on Elm St. A. D. Butler, city engr. Noted Nov. 19.

BIDS ASKED

California—May 25, by C. H. Purcell, engr. State Hy. Comn., Sacramento, two 40 ft. span, one hundred and sixteen 60 ft. span and three 64 ft. span rein.-con. girder bridge, 44 ft. roadway, one 5 ft. sidewalk over Ventura River at Main St., Ventura Co. Contractor will use old arch foundations, install new intermediate piers. Present structure will carry traffic until completion of ½ new bridge when former will be removed to permit completion of remainder of new bridge, the old superstructure (concrete) will be used as rip-rap on banks of river. $350,000. Noted May 5.

Iowa—May 24, by State Hy. Comn., Ames, one 40 x 24 ft. I-beam bridge, 47 culverts, extensions, Rd. 60, F.A.P. 351, Hancock, Humboldt, Kossuth and Wright Counties—16 culverts, extensions, Rd. 181, B-783, Marion Co.—widening two 18 ft. I-beam bridges to 24 ft. roadway, Rd. 20, F.A.B. 62—adding two 30 x 20 ft. I-beams to present 30 x 20 ft. I-beam bridge, Rd. 20, F.A.P. 201, both Black Hawk Co.—raising 32 x 24 ft. I-beam bridge, constructing one 32 x 24 ft., one 24 x 24 ft. and one 60 x 24 ft. I-beam bridges, 54 culverts, extensions, Rd. 33, F.A.B. 342 Plymouth and Sioux Counties. C. R. Jones, aud.

Ia., Des Moines—See "Streets and Roads."

Kansas—See "Streets and Roads."

Kansas—May 27, by State Hy. Comn., Court House, Wellington, six 30 ft. deck girder, seven 90 ft. marsh arch and nine 70 ft. steel beam bridge on Project 55-1, Federal Project 235-B Sumner Co. W. V. Buck, Topeka, hy. engr.

Maine—May 25, by State Hy. Comn., Augusta, bridge over Davis Stream, Mayfield Plantation, Washington, involving 275 cu.yd. concrete—bridge over Bigelow Brook, Mayfield Plantation, 305 cu.yd. concrete—bridge over Dyers River, Jefferson, 225 cu.yd. concrete—bridge over Bear River, Grafton Plantation, 337 cu.yd. concrete—bridge over Miller Stream, Clinton, 254 cu.yd. concrete and 5,200 cu.yd. fill — bridge over Nichols Brook, Bradley, 348 cu.yd. concrete.

Maryland—May 24, by State Roads Comn., G. C. Uhl, chn., Baltimore, concrete bridge floor and work on approaches for single 200 ft. span bridge, Contr. AA-121-1-87 Anne Arundel Co.—concrete bridge floor and surfacing approaches for double 108 ft. span bridge, Contr. F-159-1-57, Frederick Co. — constructing 2 jetties Contr. Wo-120-1019, Worcester Co.; adv. E. N.-R. May 19.

N. Y., Buffalo—May 24, by G. Diehl, supt. hys. Erie Co., Ellicott Sq., 275 ft. steel trestle bridge over Clear Creek, on Jennings Rd.

Oklahoma—May 31, by State Hy. Dpt., Oklahoma City, 262 ft. rein.-con. bridge south of Mangum, $27,000; 166 ft. rein.-con. bridge on Hy. 283 east of Mangum, $25,000, both Greer Co. C. L. Wilson, hy engr.

Ore., Portland—Comrs. Multnomah Co. taking bids redecking Morrison bridge from Front to East Water Sts. $45,000.

Pennsylvania—See "Streets and Roads."

Texas—May 27, by State and Hemphill Co., 260 ft. concrete, steel trestle type bridge, 24 ft. over Washita River, Hy. 4, Hemphill Co. $100,000. M. E. Savage, Canadian, resident engr.

Wisconsin—May 24, by State Hy. and Hy. Coms. St. Croix, Pepin, Taylor, Dunn and Pierce Counties, at Eau Claire, constructing Rush River Bridge, S.T.H. 34, F.A.P. 401-F, Pierce Co.—Somerset Bridge on S.T.H. 35, and 64, F.A.P. 400A—Hogan Bridge, S.T.H. 64, S.A.P. 6149—Gherty Bridge, S.T.H. 46, S.A.P. 6148—Demott Bridge, S.T.H. 65, S.A.P. 6151—Veenendahl Bridge, S.T.H. 46, S.A.P. 6166, all foregoing St. Croix Co.—Johnson Bridge, S.T.H. 35, S.A.P. 6180, Pierce Co.

CONTRACTS AWARDED

California—C. H. Purcell, engr. State Hy. Comn., Sacramento, 3 bridges between point 4 mi. and 8 mi. south of Gorman Station, Los Angeles Co., to Dimmitt & Taylor, 815 East 59th St., Los Angeles, $47,478. Noted Apr. 21.

Calif., San Francisco—H. Hall, clk. Sacramento Co., H. Street Bridge over American River, to Pacific Bridge Co., foot of East Salmon St., Portland, Ore., $140,519.

Indiana—State Hy. Comn., Indianapolis, 2 span 55 ft. rein.-con. arch bridge, Rd. 44, Contr. 493, Fayette Co., to A. B. Hash, Sandborn, $11,357; one 60 ft. rein.-con. arch bridge and one 40 ft. rein.-con. girder bridge, Rd. 67, Contr. 498, Knox Co., to E. R. Campbell, Sandborn, $12,783, est. $19,005. Noted Apr. 21.

Indiana — State Hy. Comn., Indianapolis, 7 span 664 ft. rein.-con. arch bridge, 56 ft. wide, over White River, Contr. 501, U. S. Rd. 31, Marion Co., to Cunningham & Johnson, 301 West Washington St., Indianapolis, $162,241. Est. $223,327. Noted May 5.

Ia., Greenfield—See "Proposed Work."

Ia., Waterloo—Black Hawk Co., 4 I-beams, 31 culverts, miscellaneous items, to W. A. Burton, Waterloo, $12,300; 19 pipe culverts, to E. B. Spencer Constr. Co., Waterloo, $1,850.

Maryland—State Roads Comn., Baltimore, G. C. Uhl, chn., electrical work for complete electric lighting and power system for bridge over Bohemia River on Elkton-Chestertown Rd., CE-108-1-27, Cecil Co., and bridge over Marshyhope Creek at Brookview, Dorchester Co., to Roland Electrical Co., 418 East Pratt St., Baltimore, $3,790 and $3,536 respectively. Noted May 5.

Massachusetts—Dpt. P. Wks., State House, Boston, A. W. Dean, engr., 500 ft. creosoted timber pile bridge, bulkhead and approaches, Edgartown and Oak Bluffs, to O. W. Miller, 181 Fountain St., Springfield, $20,113.

Minnesota—State Hy. Comn., St. Paul, to Industrial Contg. Co., 3050 4th Ave. S., Minneapolis, Bridge 5190, 814 ft. long on State Project 8-48-1, Brookston, St. Louis Co. $77,827; Bridge 5188, 150 ft. long, on S.P. 58-21-3, Zumbrota, Goodhue Co., $16,570; Bridge 5211, 120 ft. long, S.P. 66-22, Appleton, Swift Co., $20,211—to A. Guthrie & Co., Builders Exch., St. Paul, Bridge 5150, 220 ft. long, S.P. 3-24-2, Wabasha, Wabasha Co., $21,000. Grand total, $135,608. Noted Apr. 7.

Missouri—State Hy. Bd., Jefferson City, to Graham Bros., 6519 East 37th St., Kansas City, bridges over Stream $1,354; over Creek $1,604; over stream $1,600, over White Oak Creek, $2,923; over Painter Creek, $2,432, all foregoing Macon Co. — to Ames Milburg, Cedar Rapids, Ia., over South Blackbird Creek, Putnam Co. $5,163; over East Fork Chariton River, $11,002; over overflow East Fork Chariton River $17,078, both Randolph Co.—to S. J. Cohen & Co., Blytheville, Ark., over Lateral Ditch 12, $4,935; over Main Ditch $18,215, both Pemiscot Co.; over Wolf Hole Lateral Ditch, Mississippi Co. $2,609—to O. O. Fuller, Nevada, over James River Overflow, Greene Co., $6,873; over James River, Christian Co. $15,207; over Little Niagara River, Dallas Co. $3,481; over Knight Branch $1,470; over Post Oak Creek $1,898, both Johnson Co.—to Carte Harlin Constr. Co., West Plains, over Pine Hollow $1,447; over Hog Hollow $3,423, both Oregon Co.—to Lahar Constr. Co., Boonville, over Ditch 14, Butler Co. $2,176; over stream, Webster Co. $691—to C. H. Atkinson Paving Co., Chillicothe, over Santa Fe R.R., Carroll Co. $14,608—to Neyer Constr. Co., Billings, over stream $4,500; over stream $3,339; over Fry Branch $3,066; over Dry Branch $2,931, all foregoing Lawrence Co.—to P. McGlone, Harrisonville, over Blue Ridge Blvd. $7,961; over Missouri Pacific R.R. $15,903, both Jackson Co.—to Kelly & Underwood, Granby, over Elks Creek, Christian Co. $2,583—to H. D. Thomas, Fulton, over Kings Branch, Gasconade Co. $1,219—to J. Spitcaufsky, Kansas City, over Camp Branch, Henry Co. $2,908—to Knox & Penzel, Jackson, over North Fork Jonca Creek, St. Genevieve Co. $5,525—to J. A. Kerr, Ozark, over Niel Branch, Cedar Co. $1,298. Grand total $171,522. to C. H. Atkinson Paving Co., Chillicothe, bridge over Little Wakenda Creek. Rejected bids May 5, bridge over Little Niangua River, Camden Co. Noted Apr. 28.

Montana—State Hy. Comn., Helena, bridges in Flathead Co. to Morrison-Knudson Co., O. N. Bldg., Spokane, Wash., $3,542—in Jefferson Co., to W. K. Trippet, Whitefish, $10,912—in Custer and Fallon Counties, to Rue Bros., Bismarck, N. D., $48,203—in Roosevelt and Daniels Counties, to Dakota Concrete Co., Minot, N. D., $23,024. Grand total $85,681. Noted May 5, under "Streets and Roads."

Oklahoma—State Hy. Dpt., Oklahoma City, 266 ft. steel truss bridge near Cold Springs, Kiowa Co., to Hamilton & Johnson, Pauls Valley $31,049 est. $35,000—146 ft. rein.-con. bridge at Arnett, Ellis Co., to G. Secor, Hales Bldg., Oklahoma City, $13,182 est. $20,000—three 100 ft. span pony truss bridge over Cinnamon River, near Ames, Major Co., to R. S. James, Cotton Exch. Bldg., Oklahoma City, $29,017 est. $35,000—three 60 ft. I-beam span and one 100 ft. span steel truss bridge at Wilburton, Latimer Co., to Haynes & Box, Tuskahoma, $32,948 est. $40,000—rein.-con bridge south of Hobart, Kiowa Co., to Portwood Constr. Co., Hobart, $15,724 est. $25,000—rein.-con. bridge on U. S. Hy. 75, near Weleetka, Okfuskee Co., to Moran & Buckner, Muskogee, $17,670 est. $25,000. Grand total $139,590.

Okla., Blackburn — Pawnee Co., new steel truss bridge on concrete piers over Arkansas River, to J. B. Klein Co., 1004 West 2nd St., Oklahoma City, $128,140. Est. $200,000. Noted Mar. 22.

Okla., Tulsa—City Council, rein.-con. viaduct at Utica Ave. and Frisco tracks, to Howard Frye & Co., 111 South Florence St., $94,068. Est. $110,000.

Pa., Pittsburgh—See "Unclassified."

Wis., Chippewa Falls—State Hy. Comn., Madison, substructure Chippewa Falls Bridge, Contr. 1, to Chicago Constr. Co., Oconto, $187,754; superstructures, steel work, to Worden-Allen Co., Port Washington Rd., Milwaukee, $70,028. Noted Apr. 21.

Man., Riverton—Province of Manitoba, Hon. W. R. Clubb, minister P. Wks., Parliament Bldgs., Winnipeg, vehicular bridge over Islandic River, steel construction, to Dominion Bridge Co., 702 Canada Bldg., Winnipeg; all other construction by Owner, Good Roads Dpt., Parliament Bldg., Winnipeg. H. H. Hurd, Parliament Bldg., Winnipèg purch. agt. for Government. Noted Apr. 14.

STREETS AND ROADS

BIDS ASKED

California — May 25, by State Hy. Comn., Sacramento, grading, concrete surfacing 2.4 mi. road between Montalvo and Oxnard, Ventura Co.; grading, treating existing rock borders with bituminous surface materials 11.9 mi. road between McConnell and Sacramento, Sacramento Co. C. H. Purcell, hy. engr.

California—June 1, by State Hy. Comn., Sacramento, bituminous treated crushed gravel or stone surfacing 6.9 mi. road between Crescent and Madrona Camp, Del Norte Co.—concrete and asphaltic concrete surfacing 10.6 mi. road between San Pablo and Carquinez Bridge, Contra Costa Co.—grading, bituminous treated crushed gravel or stone surfacing 0.8 mi. Cottonwood Creek Rd., Siskiyou Co. C. H. Purcell, hy. engr.

Connecticut—May 23, by J. A. Macdonald, state hy. comr., Hartford, trap rock waterbound macadam paving 9,059 ft. Southbury—grading, drainage, gravel base surfacing 3,278 ft. Waterford—rolled bank run gravel surfacing 9,200 ft. Easton—11,367 ft. Ledyard—11,550 ft. Somers—5 x 5 ft. rein.-con. box culvert and approaches, Guilford—3 in. screened gravel on 6 in. bank run gravel base surfacing 9,675 ft. Weston; adv. E. N.-R. May 19.

Florida—May 24, by State Road Dpt., Tallahassee, B. M. Duncan, state hy. engr., sand rock asphalt, (Kyrock), or macasphalt on limerock base surfacing 10.26 mi. Rd. 2, Project 757—9.89 mi. Rd. 2, Project 758, both Polk Co.—clearing, grubbing, grading, drainage structures, macasphalt or Colprovia on limerock base surfacing 6.76 mi. Rd. 47, Project 1024—2.94 mi. Rd. 4, Project 1097, both Duval Co.—furnishing 158,500 gal. f.o.b. cars Trenton and 158,500 gal. f.o.b. cars, Bell, coal tar for mixed in place sand surfacing Rd. 77, Project 878, Gilchrist Co.

Florida—May 24, by State Road Dpt., Tallahassee, clearing, grubbing, grading, drainage structures, limerock base surface treating 8.5 mi. Project 562-C, Rd. 8, Highlands Co. B. M. Duncan, state hy. engr.

Illinois—May 24, by State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, concrete surfacing 0.95 mi. Route 25, Sect. 28-WZ, 20 ft., Champaign Co. Cement furnished by state. F. T. Sheets, hy. engr.

Iowa—May 24, by State Hy. Comn., Ames, grading, drainage structures 0.444 mi. U. S. Rd. 161, F-9 Johnson Co.—0.275 mi. U. S. Rd. 6, P-523 Muscatine Co.—4.871 mi. U. S. Rd. 75, P-767 Woodbury Co.—grading, drainage structures 2.328 mi. Rd. 106, P-800 Cerro Gordo Co.—16.524 mi. Rd. 60, F.A.P. 351, Kossuth, Humboldt, Hancock and Wright Counties—3.358 mi. Rd. 181, P-783 Marion Co.—14.172 mi. Rd. 33, F.A.P. 342 Plymouth and Sioux Counties—furnishing, applying bituminous material and furnishing 800,000 gal. road oil or tar in tank cars, f.o.b. various destinations Rd. 148, F-227 Adams Co. Rd. 148, F.A.P. 196 and F-81 Taylor Co.—Rd. 120, P-618, Montgomery Co.—Rd. 11 P-144 Fayette Co.—Rd. 11, P-177 Winneshiek Co.—Rd. 137, P-526 Lucas Co.—Rd. 137, P-728 Warren Co.—gravel surfacing 4.6 mi. Rd. 213, P-808 Monroe and Wapello Counties—4.6 mi. Rd. 23, P-772 Van Buren Co., 1.9 mi. Rd. 159, P-692—4.5 mi. Rd. 22, P-809, both Keokuk Co.—7.5 mi. U. S. Hy. 55, P-807 Clinton Co.—7.3 mi. U. S. Hy. 55, P-696, Clinton and Jackson Counties—11.6 mi. U. S. Hy. 55, P-697—8.1 mi. U. S. Hy. 55, P-698—12.2 mi. U. S. Hy. 55 P-699, all Jackson Co.—8.3 mi. U. S. Hy. 55, P-720 Dubuque Co. C. R. Jones, aud.

Ia., Cherokee—May 26, by W. O. Dailey, aud. Cherokee Co., grading 6.5 mi. roads, incl. 152,654 cu.yd. excav., 237,900 sta. yd. overhaul. F. C. Rubey, Court House, engr.

Ia., Shelbyville — May 24, by Bd. Supervs. Shelby Co., grading 13.2088 mi. Sect. OA-M.F.T., 30 ft. G. H. Baker, c/o State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, engr. county roads.

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Streets and Roads (Continued)

Ia., Toledo—May 25, at office Auditor Toledo Co., improving 27 mi. roads, incl. furnishing, hauling, spreading 17,000 cu.yd. Class A gravel or limestone crushed; also resurfacing 37 mi., incl. 6,000 cu.yd. gravel or limestone.

Kansas—May 25, by State Hy. Comn., Court House, Columbus **(P. means Project, K.P. Kansas Project and F.A.P. Federal Aid Project)**, grading, culverts 1.453 mi. P. 73W-16, F.A.P. 60-A, incl. six 30 ft. span deck girder bridge, Anderson Co.—0.235 mi. bridge approaches P. 7-2, F.A.P. 403-B, incl. three 14 ft. multiple box spans—concrete surfacing 3.882 mi. P. 166-17, F.A.P. 299-C, both Cherokee Co.—E. C. and bituminous retread surfacing 1.5 mi. P. 39-4, K.P. 7533 Neosho Co.—4.292 mi. P. 73W-12 and 13, F.A.P. 19-AB Allen Co.—bituminous retread surfacing 0.747 mi. P. 73E-12B, K.P. 1358—bituminous surface drag treating 1 mi. P. 73E-14, K.P. 7636—7 mi. P. 73E-13, K.P. 7635, all Bourbon Co. W. V. Buck, Topeka, hy. engr.

Kansas—May 27, by State Hy. Comn., Court House, Wellington, sand gravel surfacing 94.25 mi. roads in Edwards, Pawnee, Rice, Rush, Sedgwick and Sumner Counties—54 mi. Harvey, Harper, Barton, Kiowa and Kingman Counties—119.25 mi. Barton, Sumner, Harper, Harvey, Cowley, Rush, Rice, Reno and Sedgwick Counties. W. V. Buck, Topeka, hy. engr.

La., New Orleans—May 24, by City Purchasing Agent, City Hall, resurfacing Napoleon Ave. from Water St. to Claiborne Ave. $100,000 appropriated.

Maryland — May 24, by State Roads Comn., Baltimore, G. C. Uhl, chn., concrete paving 0.67 mi. Contr. M-214-35, Montgomery Co.—1.99 mi. Contr. W-92-64, Washington Co.—concrete roadway and slag shoulders 1.19 mi. Contr. Q-82-22, Queen Anne's Co.; adv. E. N.-R. May 19.

Md., Baltimore—Bd. Awards, rejected bids Apr. 27, concrete paving 12,000 sq.yd. streets listed in Contr. 617. G. Cobb, Municipal Bldg., hys. engr. Noted Apr. 21.

Massachusetts—May 24, by Dpt. P. Wks., rein.-con. paving 4,133 ft. hy. Milford. A. W. Dean, Dpt. P. Wks., engr.

Mass., Boston—May 23, by Dpt. P. Wks., sheet asphalt or bitulithic paving Parker St. and Brown Ave., et al. $25,000. J. A. Rourke, Dpt. P. Wks., engr.

Mass., Melrose—May 25, at office of Mayor, City Hall, concrete driveway, walks, about high school also pile foundation for school. $25,000. F. E. Ellis, Dpt. P. Wks., engr.

Mississippi—May 31, by State Hy. Comn., Jackson, hydraulic settlement of fills by pressure jetting, 155,840 cu.yd. Meridian-Hattiesburg Rd., Federal Aid Project 135-Reopened, Lauderdale Co.; grading, drainage structures, hydraulic fills, alternate types of paving 141,887 sq.yd. Tutwiler-Clarksdale Rd., Federal Aid Project 212-A, Coahoma Co. C. M. Williamson, dir.

Nevada—May 25, by S. C. Durkee, state hy. engr., Carson City, asphaltic fuel oil, applying and mixing it with crushed rock or crushed gravel surface and applying seal coat on 18.76 mi. road between East foot Pequops and point 4 mi. east of Silver Zone, Route 1, Sects. F and G 2, Elko Co.

New York—June 8, by A. W. Brandt, comr. Hys., Albany, constructing hys. in Allegany, Columbia and Greene Counties; reconstructing hys. in Erie, Greene, Monroe, Orange, St. Lawrence Counties; adv. E. N.-R. May 19.

N. Y., Brooklyn—May 25, by H. Hesterberg, pres. Brooklyn Boro, Boro Hall, grading, sheet asphalt on concrete paving Avenue D, Elmore and Prospect Pls., Degraw, Keap, East 34th, and 14th Sts., Jefferson and Parkside Aves.—grading, granite block on concrete paving Water St.—grading, curbing, flagging, Kenmore Pl., Bedford and Shepherd Aves., Pine and West 12th Sts.

N. Y., Buffalo—May 26, by W. A. Rathman, comr. P. Wks., City Hall, repaving Linden Ave., Wilson and Adams Sts., and railway area in Hoyt St.

N. Y., Long Island City—May 23, by G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., grading, sheet asphalt on concrete paving Bway., Parsons Blvd., 30th and 69th Rds., Martense, 47th, 33rd, 108th Aves., 14th, 36th, 74th, 37th, Union, 124th 205th, 23rd, 40th Sts., grading, sidewalks on Willets Point Blvd., 108th and Prospect Aves.

N. Y., New York—May 24, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sheet asphalt on concrete paving Belmont Ave.—asphalt block on concrete repaving East 78th St.; asphalt block and granite block repaving East 178th St. and East Tremont Ave—granite block on concrete repaving Webster Ave. and Southern Blvd.

N. Y., St. George—May 25, by J. A. Lynch, pres. Richmond Boro, Boro Hall, grading, bituminous macadam paving Miller St.

N. Y., Yonkers—June 3, by Westchester Co. Sanitary Sewer Comn., New County Office Bldg., White Plains, sewers, underground structures, granite block on concrete paving 450 lin.ft. Sect. E, Sawmill-North and Central Yonkers Projects, on and near Alexander St. W. W. Young, 148-166 Martine Ave., White Plains, consult. engr.; adv. E. N.-R. May 19.

O., Cincinnati—May 27, by Comrs. Hamilton Co., grading, tar bound macadam paving 2,200 sq.yd. Settle Rd. $5,026—10,000 sq.yd. Fagaly-Bogart Rd., $19,375—6,000 sq.yd. Caroline Trace Rd. $10,470. E. A. Gast, co. surv.

Oklahoma—May 24, by State Hy. Dpt., Oklahoma City, grading, drainage structures 8.71 mi. State Hy. 48, north of Stroud, 32 ft. Lincoln Co., $36,00—8 mi. State Hy. 48 south of Cushing, 32 ft., Payne Co. $32,000. C. H. Wilson, hy. engr.

Oklahoma—May 31, by State Hy. Dpt., Oklahoma City, grading, drainage structures 12 mi. State Hy. 34 north of Mangum, 32 ft., Greer Co. $25,000. C. L. Wilson, hy. engr.

Pennsylvania — June 2 and 3, by State Hy. Dpt., Harrisburg, grading, rein.-con. and macadam paving 15 road projects, totaling 61 mi., in Berks, Bucks, Cambria, Clinton, Crawford, Forest, Clarion, Centre, Huntingdon, Lehigh, McKean, Northumberland, Schuylkill, Sullivan, Susquehanna and Wayne Counties; bridge superstructure in Mifflin Co. S. S. Lewis, secy.; adv. E. N.-R. May 19.

S. D., Sioux Falls—May 31, by City, concrete paving 13,032 sq.yd. Minnesota Ave. $25,000. R. E. Bragstad, city engr.

Texas—May 26 and 27, by State Hy. Comn., G. Gilchrist, state hy. engr., Austin, grading, brdiging, concrete, bituminous, waterbound broken stone macadam base course, double asphalt triple asphalt, paving 65 mi. hys. in Cherokee, Childress, Crockett, De Witt, Gray Hemphill, Leon, McLennan, Navarro, Pecos, Concho, Menard, Reagan, Reeves, Jeff Davis, Roberts, Stonewall, Sutton, Tarrant, Kerr, Lubbock, Comal, Runnels, Coleman, Andrews and Terrell Counties. $2,725,000.

Wash., Seattle—June 6, by King Co., grading, graveling 3,800 cu.yd. Kummer Cut-off Rd., North Section. $40,000. Former bids rejected. T. D. Hunt, Seattle, co. engr. Noted Apr. 21.

Wash., Vancouver—Comrs. Clarke Co. bids about June 3, asphalt paving 1.75 mi. Lateral Hy. 19; 3 mi. Permanent Hy. 18. C. Deako, Vancouver, co. engr.

Wisconsin—May 24, by State Hy. Comn. and Hy. Coms. St. Croix, Pepin, Taylor, Dunn and Pierce Counties, at Eau Claire, graveling 17,054 cu.yd. Houlton-Somerset Rd., S.T.H. 64 and 35, F.A.P. 400-Aand B, St. Croix Co.—41,030 cu.yd. Thorp-Jump River Rd., S.T.H. 73, S.A.P. 6186, Taylor Co.—3,155 cu.yd. Menominee-Wheeler Rd., S.T.H. 25, S.A.P. 6194, Dunn Co.—crushed rock surfacing 2,152 cu.yd. Durand-Eau Claire Rd., S.T.H. 85, S.A.P. 6141 and 6144—1,250 cu.yd. Durand-Mondovi Rd., S.T.H. 43, S.A.P. 6145, both Pepin Co.—10,905 Durand-Ellsworth Rd., S.T.H. 34, F.A.P. 401 F and 234 reopened, Pierce Co.

Wisconsin—May 26, by State Hy. Comn. and Hy. Com., Monroe Co., LaCrosse, grading 13.281 mi. Sparta-Norwalk Rd., S.T.H. 71, S.A.P. 5352, incl. construction Brook, Sebranck, Jenkins, Nichols, Mack, Roy, Gnewikow, McGary, Norwalk, Morris and Meyers Bridges, Monroe Co.—13.672 mi. Wilton-Elroy Rd., S.T.H. 71, S.A.P. 5347, incl. Schultz, Dorset subway, Wolfgram, Krauss, Kahler, Park Street No. 1, Street No. 2 and Weiland Bridges—concrete surfacing 0.634 mi. Middle Ridge-LaCrosse County Rd. (approaches to Green Acres Overhead), S.T.H. 33, S.A.P. 5358 and 5276, LaCrosse Co.—0.246 mi. Mormon Coulee Overhead (approaches only), U. S. Hy. 61, S.A.P. 6335—0.576 mi. Monegan Overhead, U. S. Hy. 16, S.A.P. 5320—0.747 mi. LaCrosse-LaCrescent Rd., U. S. Hy. 61, LaCrosse Co.—3,378 sq.yd. Viroqua-Richland Center Rd., S.T.H. 11, F.A.P. 422-B, Vernon Co.

Wisconsin—May 27, by State Hy. Comn., Court House, Rhinelander, furnishing, applying 940,000 gal. asphalt, Type "C" 50-60, Price, Iron and Vilas Counties—1,348,000 gal. in Forest, Langlade, Lincoln and Oneida Counties—88,000 gal. in Oneida Co.—250,000 gal. in Vilas Co.—116,000 gal. in Oneida Co.—120,000 gal. in Langlade Co.

Ont., Hamilton—See. "Contracts Awarded."

CONTRACTS AWARDED

Arizona—State Hy. Comn., Phoenix, grading, oil processing roadbed 3.6 mi. Blythe-Wickenburg Hy., Yuma Co., to R. V. Dennis Constr. Box F, Station A, San Diego, Calif., $61.303. Noted Apr. 22.

Arizona—State Hy. Comn., Phoenix, grading, oil processing 19.4 mi. Prescott-Ash Fork Hy., Yavapai Co., to N. G. Hill & Co., Phoenix, $260,600. Noted Apr. 28.

Ark., Ft. Smith—Bd. P. Impvts., Paving Dist. 47, City Comn., paving 18 blocks 6th, 7th and North B Sts., to Luke Constr. Co., Ft. Smith, $42,760.

California—J. H. Skeggs, dist. engr. State Hy. Comn., State Bldg., San Francisco, fuel oil treating as dust palliative, 15 mi. road in Mendocino Co., to C. Kuppinger, P. O. Box 356, Lakeport, $3,600; State Hy. Comn., Sacramento, fuel oil treating 18.8 mi. road in Mono Co., to Basalt Rock Co., 900 8th St., Napa, $18,777.

California — C. H. Purcell, engr. State Hy. Comn., Sacramento, treating with fuel oil as dust palliative 19.5 mi. road in Kern Co. and applying heavy fuel oil to shoulders 9.8 mi. San Luis Obispo Co., to Granite Constr. Co., Bin 3, Watsonville, $8,845 and $8,712 respectively—treating with fuel oil as dust palliative 30.6 mi. Kern Co., to Street Impvt. Co., 3028 Gilroy St., Los Angeles, $8,037—13.7 mi. Santa Clara Co., to Palo Alto Road Material Co., Palo Alto, $1,345. Grand total $26,939. Noted Apr. 21.

California — C. H. Purcell, engr. State Hy. Comn., Sacramento, bituminous crushed gravel or stone surfacing 7.3 mi. road between San Mateo and Redwood City, San Mateo Co., to Basich Bros., 20550 Normandie Ave., Torrence, $112,910; emulsified asphalt and screenings in place 1,115,000 sq.yd. Marshall-Valley Ford Rd., Marin Co., to Helwig Constr. Co., 115 East Main St., Sebastopol, $18,621. Noted Apr. 14.

California — State Hy. Comn., Sacramento, grading 4.2 mi. road between Pulga and Cresta 21 ft., Butte Co., to Hemstreet & Bell, P. O. Box 770, Marysville, $297,509—clearing, grubbing 5.1 mi. hy. right-of-way between Inspiration Point and Vine Hill, Santa Cruz Co., to J. E. Ely, Oroville, $28,900—grading 36 ft. wide, concrete paving 30 ft. wide, 0.8 mi. Rio Vista Rd., Solano Co., to C. W. Wood, P. O. Box 1435, Stockton, $23,936—grading 25 ft. wide, untreated crushed gravel or stone surfacing 20 ft. wide 0.75 mi. road from Sonora east, Tuolumne Co., to Contoulas Constr. Co., 1219 Hearst Bldg., San Francisco, $19,916—asphaltic road oil as dust palliative 30.7 mi. road between Weldon to point near Freeman, Kern Co., to Oilfields Trucking Co., Taft, $11,-970—oiling 30 mi. road between Blue Lake and Sayler, Humboldt and Graham Counties, to Skeels & Graham, Roseville, $7,341. Grand total $389,572. Noted Apr. 21 and 28.

Georgia—State Hy. Bd., Atlanta, concrete paving 10.5 mi. Savannah-Macon Hy., Laurens Co., to Dickson-Carrol Co., Greenville, S. C., $187,-121; reinforcing sides of paved road between Athens and Watkinsville, to L. D. Law Constr. Co., Gainesville, $978. Noted May 5.

Ill., Springfield — City Council, widening, curbing, building up parts of old base, 6 in. concrete paving 3,502 sq.yd., brick resurfacing 14,950 sq.yd. 7th St., to J. F. Bretz, Springfield, $35,663.

Ill., Watseka—Iroquois Co., 9 x 6 x 9 in.-10 in. concrete paving 211,161 lin.ft. Sect. 91-15d, to A. J. Shanks & Co., Watseka, $40,-484; 20,798 lin.ft. Sect. 93-15d and 6,952 lin.ft. Sect. 94-15d, to R. P. Devine, Watseka, $42,809 and $15,819 respectively. Grand total $99,111.

Indiana — State Hy. Comn., Indianapolis, grading, drainage structures, concrete surfacing 136,668 sq.yd. Federal Aid Project 185, Rd. 45, incl. 68,089 ft. metal shoulders, 51,622 ft. guard rail, 230,668 lb. reinforcing steel, Dubois and Martin Counties, to L. L. Clymer, Bluffton, O., $178,261. Est. $233,029. Noted Feb. 18

Indiana — State Hy. Comn., Indianapolis, grading, drainage structures, concrete surfacing 148,960 sq.yd. Roads 6 and 43, Federal Aid Project 170-A, Laporte Co., to Rieth-Riley Constr. Co., Goshen, $175,604. Est. $223,516. Noted Mar. 24.

Indiana — State Hy. Comn., Indianapolis, concrete widening 3.345 mi. Roads 2 and 27, Projects 288 and 141A1 Allen Co., to R. L. Harris, State Rd., Ft. Wayne, $53,419. Est. $68,-128. Noted Mar. 24.

Ia., Cedar Rapids—Linn Co., gravel surfacing 12.88 mi. local roads, and resurfacing 18.27 mi. trunk roads, to Builders Material Co., 601 South 3rd St., 20,282, surfacing 7.38 mi. local roads, and resurfacing 18.27 mi. trunk roads, to Builders Material Co., 601 South 3rd St., $20,282; surfacing 7.38 mi. local roads, to Langfitt & Co., Cedar Rapids, $8,442. Noted Apr. 21.

Ia., Dakota City—Humboldt Co., improving roads, 64,700 cu.yd. construction graveling, incl. 604,500 units overhaul, 16,180 cu.yd. pit stripping, 15,000 cu.yd. maintenance graveling, 40,-000 units overhaul, 3,750 cu.yd. pit stripping, to H. R. Maudlin, Nevada, and to W. B. Williams, Algona, $37,068. County furnishes gravel from own pits.

Ia., Des Moines—Polk Co., graveling 47 mi. roads, 12 projects, to F. G. Bennethum, Polk City, $25,954—3 projects, to Hall Constr. Co., Des Moines, $1,094—1 project, to I. Clark, Des Moines, $830; grading, Corydee Rd., to G. C. Longerbone Co., Market and Southwest 15th sts., $9,800; 80 x 20 ft. pony truss bridge with four 32 ft. I-beam approach spans. Project 165, to Lundren-Reis Co., 125 College St. $12,396. Grand total $50,396.

Ia., Estherville—Emmet Co., grading secondary roads, to M. T. McGuire, Algona, $7,867; surfacing secondary roads, to Yant Constr. Co., 905 Omaha Natl. Bank Bldg., Omaha, Neb., $15,853.

Ia., Fairfield—Jefferson Co., improving local roads, incl. 131,372 cu.yd. excav., 113,415 sta. yd. overhaul, to F. C. Bretz Milton, $18,461.

Ia., Marion—Linn Co., surfacing secondary road system, to Builders Material Co., Cedar Rapids, $22,352.

Ia., Marshalltown—Marshall Co., grading secondary roads, to R. W. Herbert, Marshalltown, $12,274—22 culverts, to H. E. Whitlatch, Oskaloosa, $6,963—5 culverts, to E. M. Sternquist, Boone, $5,161. Grand total $24,498. Noted Apr. 21.

Kentucky—State Hy. Dpt., Frankfort, grading, drainage structures, using 1st class rein.-con. pipe 3.654 mi. Bardwell-Columbus Rd., Carlisle and Hickman Counties, to McDade & McDade, Fulton, $10,460—8.26 mi. Williamsburg-Cumberland Rd., Whitley Co., to O. V. Arnett, Berea, $65,766—9.071 mi. Russellville-Morgantown Rd. and grading, drainage structures, traffic bound macadam surfacing, using 1st class rein.-con. pipe 3.482 mi. Russellville-Guthrie Rd., both Logan Co., to C. B. Peart, Auburn, $19,797 and $55,286 respectively — 4.303 mi. Russellville-Adairville Rd., Logan Co., to Young & Lyons, Rogersville, Tenn., $77,157—rein.-con. surfacing 10.506 mi. Pikeville-Williamson (W. Va.) Rd., Pike Co., and 8.544 mi. Prestonsburg-Pikeville Rd., Floyd Co., to Carey-Reed Co., Lexington, $205,787 and $145,762 respectively—traffic bound gravel surfacing 10.085 mi. Catletsburg-Louisa Rd., Boyd Co., to Myers & Gorman,

Streets and Roads (Continued)

Campbellsburg, Ind., $37,368. Grand total $617,383. Noted Apr. 28.

Maryland — State Roads Comn., G. C. Uhl, chn., Baltimore, macadam paving 1.29 mi. Contr. Ho-111-34, Howard Co., to Caton Contg. Co., Halethorpe, $17,420; concrete paving 2.18 mi. Contr. F-188-52, Frederick Co., to M. J. Grove Lime Co., Lime Kiln, $42,924. Noted Apr. 7 and 21 respectively.

Maryland—State Roads Comn., Baltimore, G. C. Uhl, chn., concrete shoulders, concrete base 0.24 mi. Riggs Mill Rd. at Northwest Branch Contr. P-220-311, Prince George Co., to D. Marine, 2 East Lexington St., Baltimore, $4,439; macadam surfacing 0.94 mi. Downville-Williamsport Rd., Contr. W-108-62, Washington Co., to F. J. Byron, 861 Greenmount Ave., Baltimore, $12,264. Noted May 5.

Massachusetts—Dpt. P. Wks., State House, Boston, A. W. Dean, engr., bituminous macadam paving 3,800 ft. Hanson, to Arute Bros., Box 102, Bridgewater $14,307—3,000 ft. Rehoboth, to Sherry Constr. Co., Inc. 437 Devol St., Fall River, $12,509—8,925 ft. Whitman, to Eastern Constr. Co., 494 Washington St., Quincy, $58,181—2,907 ft. Lenox, to Edgewood Constr. Co., 1376 Whalley Ave., New Haven, Conn., $30,596—bitulithic concrete paving 18,477 ft. Billerica, to Central Constr. Co., Central Bldg., Lawrence, $80,126—bituminous macadam paving 5,020 ft. hy., incl. rein.-con. extension to stone arch bridge, Oxford and Auburn, to Frank & Frank Constr. Co., 9 Doyle Ave., Providence, R. I., $55,352—rein.-con. paving 13,494 ft. hy. bituminous macadam paving 500 ft., bituminous macadam widening 333 ft., rein.-con. beam bridge, Pittsfield, to Lane Constr. Corp., 37 Colony St., Meriden, Conn., $167,878. Grand total $418,949.

Mass., Boston—Dpt. P. Wks., bituminous macadam repaving on any roadway, Boston Park System, to Simpson Bros. Corp., 77 Summer St. Est. $25,000 or more.

Minnesota—State Hy. Comn., St. Paul, concrete paving 211,422 sq.yd. S.P. 64-23, F.A.P. 353C and S.P. 30-21 Div. A, and 210,000 sq.yd. S.P. 64-24, Divs. B and C, to Hanlon & Oakes, 1501 Merchants Natl. Bank Bldg., St. Paul, $296,338 and $284,604 respectively.

Mississippi—State Hy. Comn., Jackson, paving 4.5 mi. Meridian-Livingston Rd., 20 ft., Lauderdale Co., to Couch Constr. Co., Dothan, Ala., $80,733. Noted Apr. 28.

Missouri—State Hy. Bd., Jefferson City, to Imperial Trucking Corp., Kansas City, oiling 10.2 mi. Audrain Co. $3,813—to P. McGlone, Harrisonville, grading 4.896 mi. Jackson Co. $43,952—to Chaney & Amyx, Branson, graveling and crushed rock surfacing 2.76 mi. Fairplay-Aldrich Rd., Sect. 1 $8,573; 3.142 mi. Sect. 2, same road $9,372, both Polk Co.; 4.891 mi. Laclede Co. $19,884—to J. A. Kerr, Ozark, 3.58 mi. Cedar Co. $8,863 — to Nyer Constr. Co., Billings, 4.006 mi. Japer Co.-Mount Vernon Rd., $16,432; 3.367 mi. same road Sect. 9, $16,126; 3.356 mi. same road Sect. 10 $20,021, all foregoing Lawrence Co. — to Nevada Constr. Co., Nevada, chats surfacing 1.638 mi. DeKalb Co. $2,689—to J. Spitcaufsky, Kansas City, 4.005 mi. Clinton-Bates County Rd., Sect. 3, $17,010; 3.996 mi. same road Sect. 4, $17,047; 3.976 mi. same road Sect. 5, $17,938, all foregoing Henry Co.; graveling 1.098 mi. Miller Co. $2,560—to Knox & Penzel, Jackson, graveling 3.514 mi. Ste. Genevieve Co. $22,479—to Hoover Bros. Constr. Co., 3100 East 18th St., Kansas City, 4.848 mi. Putnam Co. $9,942—to Kelley & Underwood, Granby, 3.278 mi. Christian Co. $17,225—to Amos Milburg, Cedar Rapids, Ia., 1.044 mi. Putnam Co. $6,184—to A. A. Davis Co., Inc., Oklahoma City, Okla., 14 mi. Cooper Co. $6,650—by State Forces, Kirkwood, 0.893 mi. St. Charles Co. $4,116—to M. E. Gillioz, Monett, 3.163 mi. Route 112 A.P. East, $2,294; 4.792 mi. same road Sect. 2A, $3,476; 2.956 mi. Sect. 3A same road, $2,144; 2.31 mi. same road Sect. 4A, $1,252; 4.527 mi. Sect. 5A, same road $2,363; 3.572 mi. Sect. 6A, same road, $2,101, all foregoing Barry Co.; 4.973 mi. Montreal- Stoutland Rd., Sect. 4, $18,789; 4.997 mi. Sect. 5, same road $16,973, both Camden Co.—to H. D. Thomas, Fulton, 3,497 mi. Gasconade Co. $8,203; 3.767 mi. Franklin Co. $8,242; 2.311 mi. Warren Co. $7,450; 9.2 mi. Morgan Co. $3,864—to Samples & Elsea, Kirksville, 5 mi. Madison Rd. N., $12,464; 2.103 mi. same road Sect. 2, $4,014, both Monroe Co.—to Graham Bros., 6519 East 37th St., Kansas City, 3.471 New Cambria-Ethel Rd., $9,167; 2.903 mi. Sect. 2 same road, $8,454; 2.887 mi. Sect. 3, same road $7,462—to Carte Harlin Constr. Co., West Plains, 4.462 mi. West Plains Rd., E. Sect. 2A $2,057; 4.868 mi. same road Sect. 3A. $2,244, both Howell Co.; 4.527 mi. Howell County-Thomasville Rd., Sect. 4 $8,271; 4.055 mi. same road Sect. 5, $7,938; 4.171 mi. Shannon County-Thomasville Rd., Sect. 48A, $14,570; 3.514 mi. Sect. 47 same road, $23,941, all foregoing Oregon Co.—to Lahar Constr. Co., Boonville, 2.545 mi. Butte Co. $4,567; 4.091 mi. Brose City-Route 53 Rd., Sect. 2 $12,470; 3.185 mi. same road Sect. 3, $9,400; 3.688 mi. Marshfield Rd. N. W., Sect. 1 $9,505; 3.22 mi. same road Sect. 2, $8,029, both Webster Co.—to O. O. Fuller Constr. Co., Nevada, 0.155 mi. Dallas Co. $383; 0.152 mi. Johnson Co. $573; 0.258 mi. Christian Co. $3,288; 0.241 mi. Greene Co. $4,497—to McMahan & Waller, Rich Hill, 4.462 mi. Reynolds-Bunker Rd., Sect. 11, $22,112; 4.812 mi. Sect. 12, same road $17,193, both Reynolds Co.—to S. J. Cohen & Co., Blythesville, Ark., 4.053 mi. Route 55 E, Mississippi Co. $3,689; grading, concrete paving 0.387 mi. Pemiscot Co. $6,857—to M. J. Smith, St. Louis, 0.401 mi. Franklin Co. $10,149—to C. H. Atkinson Paving Co., Inc., Chillicothe, 2.593 mi. Livingston County-Carrollton Rd., Sect. 32-F $16,557; 3.237 mi. Sect. 320G same road, $19,851; 4.615 mi. same road Sect. 320H, $45,894; 2.408 mi. same road Sect. 320 $52,470—to Brosnahan Bros., 218 City Bank Bldg., Kansas City, 4.717 mi. Clinton Co. $78,300—to Harrison Eng. & Constr. Co., 506 Mutual Bldg., Kansas City, 4.609 mi. Jefferson City Rd. S. Sect. 349C, $55,203; 4.414 mi. same road Sect. 349B, $62,818; 4.833 mi. same road Sect. 349A, $53,902, all foregoing Cole Co.—to Carlon Constr. Co., Maplewood, 2.896 mi. Route 50-Clayton Rd., Sect. 10A, $17,651; 2.21 mi. same road Sect. 11A, $25,998; 0.365 mi. same road Sect. 12A, $4,859, all foregoing St. Louis Co.; 4.734 mi. Pickering-Iowa Line Rd., Sect. 336A, $26,670; 4.667 mi. same road Sect. 336B, $25,826; 0.413 mi. Sect. 336C, same road, $2,404, all foregoing in Nodaway Co. Grand total, $1,048,729. Noted Apr. 28.

Mo., St. Louis—Bd. P. Serv., City Hall, to Central Paving & Constr. Co., 411 North 7th St., asphalt paving 4,110 sq.yd. Market St. $21,394—to Chase Constr. Co., 5230 Devonshire Ave., 1,205 sq.yd. Gannett St., $5,534; asphaltic concrete, paving, 510 sq.yd. Schoenlau St. $2,927; concrete alleys in City Blocks 4517N, 5658, 5690, and 5911, $8,902—to Skrainka Constr. Co., Security Bldg., alleys in City Blocks 1319 and 4178E, $2,403. Grand total, $41,161. Noted Apr. 14.

Montana—State Hy. Comn., Helena, grading, small drainage structures on 2.115 mi. and surfacing 4.204 mi. road Broadwater and Gallatin Counties, also grading, crushed graveling 7,351 mi. Flathead Co., to E. C. Powell, Boulder, $13,038 and $31,911 respectively—grading, drainage structures 11.708 mi. Roosevelt and Daniels Counties, to Tomlinson-Arkwright Constr. Co., Great Falls, $41,612. Grand total $86,561. Noted May 5.

New Mexico—State Hy. Comn., Santa Fe, furnishing fuel, oil for oil processing F.A.P. 88-D-E-F-G 3, 21-B, Santa Fe and Rio Arriba Counties, to Texas Pacific Coal & Oil Co., Fort Worth Natl. Bldg., Fort Worth, Tex., $13,985—70-80 road oil, to Petrol Corp., 4020 Bandini Blvd., Los Angeles, Calif., $58,271—cut back asphalt, to Byrne Petroleum Co., Santa Fe, $6,041—seal coat material to Col-Tex Refining Co., Oklahoma City, Okla., $6,149—machine mix to Cook & Ransom, Ottawa, Kan., $110,341. Grand total $194,787. Rejected bids May 9, road mix and plant mix for same road.

N. Y., New York—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., curbing Cannon Pl., to F. Mascali & Son, 645 East Tremont Ave., $3,140—grading Blackrock Ave., to C. D. Beckwith, Inc., Seneca Ave. and Edgewater Rd., $6,571—repairing sidewalks on various streets, to L. DiMenna, 4778 3rd Ave., $454. Grand total $10,165. Noted Apr. 7.

N. Y., Riverhead—Suffolk Co., Court House, constructing Oswego Drive extension from Cuba Rd. south of Greenlawn to New York Ave., Huntington Station, to Johnson, Drake & Piper, 1st Natl. Bank Bldg., Freeport, $67,792.

Ohio—O. W. Merrell, dir. hys., Columbus, grading, draining, bitulithic concrete paving 2.114 mi. Sects. "G" and part of "F" Youngstown-Conneaut Rd. and grading, draining, rein.-con. widening 6.756 mi. Sects. "G" and "H" Niles-Ashtabula Rd., both Ashtabula Co., to Fitzgerald Constr. Co., 4624 State Ave., Ashtabula, $37,025 and $119,312 respectively—4.093 mi. Mahoning Co. and bitulithic concrete paving 2.169 mi. Geauga Co., to McCourt Constr. Co., 365 South Main St., Akron, $148,441 and $57,456 respectively—concrete paving 5.061 mi. Gallia Co., to Frowine Bros., Inc., Portsmouth, $127,329—grading, draining, bitulithic concrete widening 2.427 mi. Portage Co., to Costigan-Shroyer Constr. Co., 106 North Main St., Akron, $48,138—brick paving, except brick 2.215 mi. Athens Co., to Dodge-Hussey, Inc., 1174 West 5th Ave., Columbia, $77,533—furnishing and delivering brick for same, to Hocking Valley Brick Co., 150 East Broad St., Columbus, $32,222—brick paving, except brick 2.542 mi. Sect. "A" Canton-New Franklin Rd., Stark Co., to Elmer O. Voght Paving Co., 864 Wellman Ave., Massilon, $109,013—brick paving except brick 0.488 mi. Sects. "B" and "C" Canton-Navarre Rd., Stark Co., to Laughlin Coal & Constr. Co., 1108 5th St. S. E., Canton, $18,455—furnishing and delivering brick for 2 foregoing jobs, to Metropolitan Paving Brick Co., 1017 Renkert Bldg., Canton, $43,589 and $5,263 respectively. Grand total $823,776. Noted Apr. 21.

Ohio—O. W. Merrell, dir. hys., Columbus, grading, draining, widening with brick, except brick 0.657 mi. hy. Ashland Co., to R. W. Rankin, Ashland, $13,476; furnishing and delivering brick for same, to Medal Brick & Tile Co., Wooster, $5,003 — brick paving, except brick 1.013 mi. Noble Co., to Adams Bros. Constr. Co., 1 Muskingum Ave., Zanesville, $22,627; furnishing, delivering brick for same, to Ava Brick Co., Ava, $11,095 — brick paving, incl. furnishing, delivering brick 0.389 mi. Sandusky Co., to Peerless Constr. Co., Fremont, 16,426—grading, draining, crushed stone resurfacing 3.156 mi. Brown and Clinton Counties, to O'Connell & Sweeney, Kellogg and Tennyson Sts., Cincinnati, $47,404 — grading, draining, concrete paving 0.483 mi. Erie Co., to Homeberger & Wager Eng. & Constr. Co., 1802 Camp St., Sandusky, $19,100—concrete paving 1.121 mi. Holmes Co., to Hill & Hill Co., 210 Third St., Elyria, $30,799—0.981 mi. Huron Co., to A. J. Baltes, 181 Benedict Ave., Norwalk, $20,002—concrete paving 0.361 mi. Ottawa Co., to Weis Bros. & Burman, Elmore, $7,681—0.988 mi. Ross Co., to Fritz-Rimer-Cooke Co., 209 South High St., Columbus, $44,479—0.141 mi. Noble Co., to S. G. Brown, Caldwell, $3,987—rein.-con. paving 4.437 mi. Lucas Co., to Launder & Son, Inc., Station A, Toledo, $49,544—tar macadam paving 0.832 mi. Fayette Co., to Clark Bros. & Co., Inc., Mayesville, Ky., $13,990—grading, draining, waterbound macadam widening 2.491 mi. Franklin Co., to Fritz-Pyle Constr. Co., 1300 North Grant Ave., Columbus, $38,794. Grand total $344,407. Cancelled bids received May 6, grading, draining, brick paving 5.436 mi. Stark Co., $208,374, furnishing and delivering brick for same, $60,422; 0.959 mi. Wayne Co., $30,257, furnishing and delivernig brick for same, $9,912. Noted Apr. 21.

O., Cleveland—City, delinquent stone sidewalks in Northern Southern, Western and West Park Dists., to Cleveland Quarries Co., Builders Exch. Bldg., $78,098. Noted Apr. 21.

O., Cleveland—Bd. Comrs., vitr. brick paving East 131st St., to Bentley Bros., Hanna Bldg., $52,367. Est. $71,000. Noted Apr. 28.

Oklahoma—State Hy. Dpt., Oklahoma City, to J. W. Moorman, Geary, grading, drainage structures 6.563 mi. Ellis Co. $36,071 est. $45,000—to T. C. Ottinger, Hinton, 8.633 mi. Rd. 48 north of Mountain Park, $22,706 est. $25,000—to A. T. Pastelwaite Randlet, 5 mi. Rd. 48 north of Cold Springs, $12,017 est. $25,000, both Kiowa Co.; to Hoyt Constr. Co., Stillwater, 3.042 mi. Payne Co. $4,493 est. $10,000—to Greer & Reese, Fairview, 4 mi. Rd. 14 south of Hobart, Kiowa Co. $10,336 est. $25,000—to Moran & Buckner, Muskogee, 4.18 mi U. S. Hy. 75 north of South Canadian River, $19,169 est. $25,000; 7.984 mi. U. S. Hy. 75 north of Calvin, $18,023 est. $25,000, both Hughes Co.; 6.792 mi. U. S. Hy. 75 north of Weeleetka, $26,099 est. $30,000, concrete slab surfacing 3 mi. U. S. Hy. 75 north of Weleeta, $57,328 est. $65,000, 3.792 mi. U. S. Hy. 75 north of Weleeta, $67,401 est. $75,000, all foregoing Okfuskee Co.; 2 mi. U. S. Hy. 75 south from Horns Corner $44,615 est. $50,000, 2.01 mi. U. S. Hy. 75 north of Calvin, $35,276, est. $45,000, 2.02 mi. U. S. Hy. 75 south of Canadian River, $35,490 est. $40,000, 1.81 mi. U. S. Hy. 75 near Calvin, $30,228 est. $25,000, all Hughes Co.—to Porter Constr. Co., Dothan, Ala., 3.577 mi. U. S. Hy. 81 north of Terrel, $65,263 est. $70,000, 3 mi. U. S. Hy. 81, south of Sogden, $54,738 est. $60,000, both Jefferson Co. Grand total $539,253. Noted May 5.

Pennsylvania—State Hy. Dpt., Harrisburg, waterbound macadam surfacing 22,986 sq.yd. Route 260, Allegheny Co., to Freeland, McHale & Patten, Inc., 1 Pennsylvania Ave., Pittsburgh, $41,618—24,563 sq.yd. Westover Boro, Clearfield Co., to B. H. Snyder, Carlisle, $66,867—69,159 sq.yd. Chicopyle Boro, Stewart Twp., Fayette Co., to Carrodo & Galliardi Co., Connellsville, $187,690—concrete surfacing 56,905 sq.yd. Fairview, Beady and Sugar Creek Twps., Butler and Armstrong Counties, to Holmes Constr. Co., Wooster, O., $135,491. Grand total, $431,666. Noted Apr. 7.

Tex., San Antonio—Bexar Co., gravel surfacing, single and double bituminous surfacing, 1 in. natural limestone rock asphalt surfacing roads in Precincts 1 to 4 (inclusive), to Colglazier & Hoff, 326 Seguin Rd., $46,464. Est. $40,000.

Utah—State Road Comn., Salt Lake City, grading, oil mix processing 38.7 mi. state highway system, Davis, Morgan and Summit Counties, to W. W. Clyde & J. W. Whiting, Springville, $14,699 est. $18,618; 13.183 mi. Lincoln Hy., Tooele Co., to Morrison-Knudsen Co., Boise, Idaho, $75,143 est. $95,107. Noted May 5.

Utah — State Road Comn., Salt Lake City, grading, oil processing roadbed 37 mi. state highway system in Kane, Washington and Iron Counties, to North Western Eng. Co., Rapid City, S. D., $89,043. Est. $111,663. Noted Apr. 28.

Vermont—State Hy. Dpt., Montpelier, concrete paving 3.4 mi. hy. East Montpelier and Plainfield, to Arborio Road Constr. Co., 555 Main St., Hartford, Conn., $84,895; bituminous macadam paving hy. in Tunbridge, to Gordon & Sutton, 88½ Main St., North Adams, Mass.

Washington — S. J. Humes, dir. P. Hys., Olympia, clearing, grubbing, grading 6.078 mi. Grant Co., to Colonial Bldg. Co., 205 Hutton Bldg., Spokane, $49,740—grading, concrete paving 5,599 sq.yd. Pacific Co., to Goetz & Brennan, 914 Seattle Bldg., Seattle, $19,089 — grading, crushed stone surfacing 3.618 mi. King Co., to Erickson Paving Co., 1550 North 34th St., Seattle, $37,138—570 ft. steel cantilever type bridge Snohomish Co., to Pacific States Constr. Co., 505 Floyd Bldg., Seattle, $91,512. Grand total $197,479. Noted Apr. 7.

Wash., Mount Vernon—Skagit Co., grading, concrete paving 17,239 sq.yd. Lateral Hy. 7 and 24,202 sq.yd. Lateral Hy. 8, to Dorsey & Wilder, Bellingham, $29,124 and $39,101 respectively, est. $31,000 and $42,000 respectively. Noted Apr. 21.

Wash., Port Angeles—Clallam Co., bituminous macadam paving 1.25 mi. Clallam County Rd., to Northwest Roads, Inc., R.F.D. 7, Box 1210, Portland, Ore., $5,863. Est. $7,000. Noted Apr. 21.

Wash., Seattle—King Co., concrete paving 2½ mi. Redmond-Bellevue Rd., to Northwest Constr. Co., 3960 6th St. N. W., $38,956. Est. $43,000. Postponed bids to have been opened May 9, concrete paving 10,500 sq.yd. 35th Ave. S. W. and 100th St. Noted Apr. 21.

Wash., Spokane—Spokane Co., constructing 8 mi. Powers-Sherman Rd., to A. L. Mitchell & Son, Spokane, $29,300; 4 mi. Madison Rd., to

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Streets and Roads (Continued)

Clifton, Applegate & Toole, Hutton Bldg., $15,754.

Wash., Tacoma—Pierce Co., concrete paving 17,856 sq.yd. Puyallup-Lakeview Rd., to Paine & Gallucci, 1521 South Grant St., $31,869. Est. $35,475. Noted Feb. 25.

Wisconsin—State Hy. Comn., Lancaster, to V. Nelson, Superior, grading, graveling Keshena-Markton Rd., Menominee Indian Reservation, $15,120—to White Eagle Oil Co., 606 Vandalia St., St. Paul, Minn., furnishing 304,000 gal. asphalt type CC, 50-60 $12,118—to Standard Oil Co., LaCrosse 1,190,000 gal. asphalt type C 50-60 $38,667—to Rock-Road Constr. Co., 5937 Rogers Ave., Chicago, Ill., applying 242,000 gal. bituminous material, Iowa Co. $1,791; 428,000 gal. bituminous material Crawford Co. $3,907; 324,000 gal. Lafayette Co., $2,398; 366,000 gal. Grant Co. $3,257—to Barrett Co. of West Virginia, 2800 South Sac Ave., Chicago, Ill., 676,000 gal. bituminous material, type Tar B, Grant and Lafayette Counties, $5,605; 1,176,000 gal. tar type B, $101,934 —to P. W. Ryan Sons, Janesville, crushed rock surfacing A.F.E. 33-06, Lafayette Co., $2,250; A.F.E. 22-04, Grant Co., $22,867—to Groth Trucking Co., Cedarburg, A.F.E. 33-03 Lafayette Co., $2,520—to Cedarburg Constr. Co., Cedarburg, A.F.E. 33-04, Lafayette Co., $368—to E. Kraemer, Plain, graveling A.F.E. 52-03 Richmond Co., $13,686; A.F.E. 22-04 Grant Co., $16,493—to Watson & Jenkins, Dewey, crushed rock surfacing A.F.E. 33-05 Lafayette Co., $4,625—to E. A. Sturmer, Bloomington, A.F.E. 12-04 Crawford Co., $7,548—to Overgaard & Weiss, London, A.F.E. 12-03, Option C, Crawford Co., $23,736—to Standard Oil Co. of Indiana, 414 Michigan Ave., Milwaukee, 150,000 gal. asphalt type E, Columbia and Dodge Counties, $8,581; 64,000 gal. asphalt type E, $3,750—to Sarrington Milling Co., Dalton, asphalt type E, grade 2, $1,104—to Koppers Products Co., Milwaukee, 220,000 gal. tar type B, $18,488—to American-Mexican Refining Co., 11 South LaSalle St., Chicago, Ill., 64,000 gal. asphalt type E, $4,083. Grand total $314,895. Rejected bids asphalt type C, Columbia and Sauk Counties. Noted Apr. 28.

Wisconsin—Dane Co. Hy. Comn., Madison, graveling 3.125 cu.yd. in Westport, to W. Rees, Delafield, $1,813—1,600 cu.yd. in Rutland, to E. F. Gallagher, Oregon, $1,040—grading 2.05 mi. Fitchburg, to F. Kutzke, Brooklyn, $2,563—resurfacing 3 mi. County Trunk H, to Rein & Dahl, Stoughton, $7,077. Grand total $12,493. Noted Apr. 7.

Wyoming—State Hy. Comn., Capitol Bldg., Cheyenne, to R. A. Schweiger, Billings, surfacing 8.219 mi. Park Co., $9,412—to Martin & Norman, Wheatland, oil treating 4.113 mi. Uinta Co., $5,034; 26.735 mi. Park Co., $40,929; 41.872 mi. Sweetwater and Uinta Counties, $1,256; 12.996 mi. Uinta Co., $82,500—to R. Spatz, Cheyenne, 4.985 mi., Laramie Co., $9,344; 19.777 mi. Lovell-Frannie Rd. and 23.372 mi. Cody-Deaver Rd., Park and Big Horn Counties, $67,813—to J. Casson, Hayward, 32.791 mi. Big Horn Co., $23,023—to Northwestern Eng. Co., Rapid City, S. D., 87.937 mi. Natrone, Sheridan and Johnson Counties, $33,375—to Western Bridge & Constr. Co., 3867 Leavenworth St., Omaha, Neb., 14.34 mi. Lusk-Newcastle Rd., Niobrara Co., $851—to S. F. Ronde, Sheridan, 2.53 mi. Johnson Co., $14,566—to Wyoming Constr. Co., Laramie, shop and storage, Buffalo, Johnston Co., $10,414. Grand total, $298,517. Noted May 5.

Manitoba — Provincial Govt., Parliament Bldgs., Winnipeg, graveling 13 mi. hy. in municipality of Tache and St. Anne, to Foley Bros., 715 McIntyre Bldg., Winnipeg, $1,478—grading 1.2 mi. Turtle Mountain and Killarney and Hy. 17 in Louise Municipality, to Winnipeg Cartage Co., 322 Elgin Ave., Winnipeg, $2,292 and $2,516 respectively—guard posts on Hy. 31, Shellworth and Shell River Municipalities, to J. N. Atkinson, $1,610—on Hy. 4, Russell Municipality, to G. W. Hines, $545—grading 3 mi. Piney Hy., St. Vital, Ritchot and St. Anne, to A. N. Duff, $4,503—graveling 3 mi. Piney Hy., in Hanover and DeSalaberry Municipalities, to Huxley Cartage Co., 640 Ellice Ave., Winnipeg, $6,120—masonry dam over Oman Creek on Ellice Ave. extension, Winnipeg, to J. Pound, $667—graveling Hy. 31, Shell River, to A. E. Prentice, $1,135—6 mi. Piney Rd. in Tache and Ritchot Municipality, to C. T. Kelley, $11,074—Trans-Canada sections, to Bigger Bros., Winnipeg, $4,420. Grand total $36,359.

Ont., Hamilton—W. L. McFaul, city engr., concrete paving Ferrie, Jackson and Wexford Sts., day labor. $40,000.

Ont., Niagara Falls—May 23, by Suburban Area Comn., J. J. Nichol, secy., R.R. 2, Niagara Falls, asphaltic macadam paving 2.65 mi.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

La., Rayville—State Bd. Engineers, New Orleans Court Bldg., New Orleans, rejected bids Apr. 19, improving Glendora New Levee incl. 11,000 cu.yd. excav.; Buchorn Bend New Levee and enlargement, 140,000 cu.yd. excav.; Charleston New Levee, 10,000 cu.yd. excav., all Ouachita Parish. Will readvertise.

Okla., Oklahoma City—See "Bridges."

BIDS ASKED

La., New Orleans—See "Airports."

CONTRACTS AWARDED

Calif., Salinas — Reclamation Dist. 1665, Monterey Co., reconstructing, cleaning 8 mi. main drainage canal, to Marshall & Higgins, Builders Exch., Richmond, $28,702. Noted Mar. 24.

Mass., Weymouth—Town, Bd. Selectmen, concrete seawall, Fore River Ave., North Weymouth, to T. H. Hannaford, 14 Derby St. Noted May 5.

O., Cleveland—City, W. J. Kennedy, serv. dir., dredging Cuyahoga River, to Great Lakes Dredge & Dock Co., Williamson Bldg., $74,300. Noted Apr. 21.

Nova Scotia — N. Desjardins, secy. Dpt. P. Wks., Ottawa, Ont., dredging 19,000 cu.yd. clay, sand, gravel, small boulders, and 400 cu.yd. boulders, Barrington Passage, to Beacon Dredging Co. Ltd., Halifax, $13,000; dredging 50 x 640 cu.yd. sand, clay and boulders, Brooklyn, to Federal Dredging Co. Ltd., Ottawa, Ont., $15,600. Noted Apr. 7.

Ontario—N. Desjardins, secy. Dpt. P. Wks., Ottawa, dredging 8,200 cu.yd. mud, clay, sand and stone Penetanguishene, to Randolph Macdonald Co. Ltd., 1130 Bay St., Toronto, $5,300. Noted Apr. 7.

FEDERAL GOVERNMENT

PROPOSED WORK

Conn., Enfield—DAM—U. S. Eng., Dpt. Rivers & Harbors, Wash., D. C., preliminary survey dam at Enfield Rapids.

Florida—LEVEE—U. S. Eng., Jacksonville, 65,000 lin.ft. levee and navigation channel along south and east shore Lake Okeechobee, involving removal and placing in levee 4,860,000 cu.yd. material and placing 45,000 cu.yd. riprap.

N. C., New Bern—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $325,000. Noted Feb. 11.

N. C., Rockingham—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $120,000. Site selected. Noted Feb. 11.

O., Dayton—LAUNDRY—National Home for Disabled Volunteer Soldiers, 4100 West 3rd St., altering and new equipment for laundry. $50,000.

Pa., Phila. — SHORE DISCHARGE PIPE — U. S. Eng., 555 lengths 20 in. shore pipe, 16 ft. in length, 12 in. overall.

Tex., Freeport—DREDGING—U. S. Eng., Wash., D. C., altering harbor project, incl. 32 ft. deep, 300 ft. wide channel to turning basin on Brazosport, $226,500; 30 ft. channel to turning basin near Stauffer chemical plant $79,000.

BIDS ASKED

Arkansas—EARTHWORK—May 24, by U. S. Eng., P. O. Box 667, Vicksburg, Miss., 7,800 cu.yd. earthwork on east bank Red River.

Ark., Fayetteville—HOSPITAL—June 21, by Vet. Bu., Arlington Bldg., Wash., D. C., U. S. Veterans' Hospital, $1,000,000; adv. E. N.-R. May 19. Noted Mar. 3.

Calif., Alameda — FREIGHT ELEVATOR — June 1, by Treas. Dpt. at office Sup. Archt., Wash., D. C., freight elevator in U. S. Post Office.

Calif., Los Angeles—CLEARING SITE—June 2, by U. S. Eng., clearing site for U. S. Post Office and Court House. Noted Oct. 22.

Calif., San Francisco—CRANK SHAFT—May 31, by U. S. Eng., Customhouse, spare crank shaft for U.S.S. Dredge "MacKenzie." Noted Apr. 28.

Calif., San Rafael—DREDGING—June 3, by U. S. Eng., Custom House, San Francisco, 31,747 cu.yd. Sects. A and B and 207,041 cu.yd. Sects. C and D, in San Rafael Creek, Marin Co.

Conn., Stamford—DREDGING—June 10, by U. S. Eng., Providence, R. I., 135,000 cu.yd. in Stamford Harbor; adv. E.N.-R. May 19. Noted May 5.

D. C., Wash.—CABLE—May 27, by U S. Coast Guard, Wash., D. C., 35,000 ft. cable.

D. C., Wash.—POST OFFICE—May 24 (extended date), at office Sup. Archt., Wash., D. C., constructing (except elevators, truck lift, dumbwaiter, and post office station loading platform door) U. S. Post Office Department Building; adv. E. N.-R. May 19. Noted Apr. 21.

Florida—DREDGING—June 1, by U. S. Eng., Jacksovnille, 32,052 cu.yd. material from Haulover Canal. Noted May 5.

Ga., Fort McPherson—HEATING SYSTEM—May 28, at office Con. Q. M., installing new heating system in 4th Corp. Area Headquarters.

Ill., Joliet—POST OFFICE—June 7, by Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office. $185,000; adv. E. N.-R. May 10. Noted Feb. 11.

Ill., Rock Island—LOCK OPERATING MACHINERY—June 1, by U. S. Eng., furnishing, installing lock operating machinery, electrical power and control equipment for Dam 15 on Mississippi River. Noted May 5.

Ind., Greencastle—REMODELING, etc.—May 23, by Treas. Dpt. at office Sup. Archt., Wash., D. C., supplemental bids from original bidders for remodeling, enlarging U. S. Post Office. Noted Feb. 13.

Ind., Salem — POST OFFICE — June 8, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $80,000. Noted Mar. 3.

La., Monroe—STEEL PIPE—May 24, by U. S. Eng., Vicksburg, Miss., 5,500 lin.ft. ½- to 2-in. galvanized steel pipe, threaded and furnished with couplings in standard stock lengths, f.o.b. Monroe.

Mass., Provincetown—POST OFFICE—June 13, by Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing U. S. Post Office; adv. E. N.R. May 19. Noted Aug. 12.

Mass., Quincy — EXTENDING — June 9, by Treas. Dpt. at office Sup. Archt., Wash., D. C., extending, remodeling U. S. Post Office. Noted Mar. 31.

Mass., Quincy — ELEVATOR — June 9, by Treas. Dpt. at office Sup. Archt., Wash., D. C., electric elevator, in U. S. Post Office. Parker, Thomas & Rice, 177 State St., Boston, archts.

Mass., Salem — POST OFFICE — June 3, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted July 30.

Mass., Salem—ELEVATOR, etc.—June 3, by Treas. Dpt. at office Sup. Archt., Wash., D. C., electric elevator and dumbwaiter in Post Office, Norman St. Smith & Walker, 80 Boylston St., Boston, archts.

Mass., Williamstown—POST OFFICE—June 6, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted Aug. 27.

Mich., Detroit—DREDGING—June 17, by U. S. Eng., 1,376,400 cu.yd. from Courses 2 and 3, Little Rapids Channel, St. Mary's River; adv. E. N.-R. May 19. Noted May 5.

Minn., Minneapolis — MAIL HANDLING EQUIPMENT—June 28, by Treas. Dpt. at office Sup. Archt., Wash., D. C., mail handling equipment at U. S. Post Office; adv. E. N.-R. May 19.

Miss., Vicksburg—REDUCTION GEAR UNIT—May 25, by U. S. Eng., P. O. Box 667, Vicksburg, reduction gear unit.

Miss., Vicksburg — TRACTOR — May 26, by U. S. Eng., 30 hp. crawler type tractor, f.o.b. Greenville, Miss.

Missouri—LEVEE—June 7, by U. S. Eng., P. O. Box 97, Memphis, Tenn., levee protection work on Ramsey Creek Drainage Canal, Little River Drainage Dist., Scott Co.

Mo., Jefferson City—ELEVATOR PLANT—June 6, by Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator plant in U. S. Post Office.

Montana—DRAINS, etc.—Spec. 536—June 20, at office Bureau Reclamation, Fairfield, constructing 12 mi. drains and drainage system in Greenfields Div., Sun River Project. E. Mead, comr.; adv. E.N.-R. May 19.

New Jersey—DREDGING—June 9, by U. S. Eng., Gimbel Bldg., 35 South 9th St., Phila., Pa., 2,291,000 cu.yd. material in widening and extending upstream 35 ft. anchorage in Delaware River, near Mantua Creek. Noted Mar. 31.

N. Y., Glen Cove—POST OFFICE—June 7, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted Mar. 10.

N. Y., Madison Barracks—WATER SUPPLY—May 25, by Con. Q.M., developing water supply, constructing pump house, installing pumping equipment.

N. Y., Rouses Point—INSPECTION STATION—June 6, by Treas. Dpt., at office Sup. Archt., Wash., D. C., inspection station.

O., Chillicothe—ELEVATOR—May 23, by Bureau Prisons, Dpt. Justice, Wash., D. C., delivering, installing cab and hatchway doors, 1 passenger elevator for hospital building at U. S. Reformatory.

O., Coshocton—HEATING BOILERS, etc.—June 6, by Treas. Dpt. at office Sup. Archt., Wash., D. C., new heating boilers, etc., in U. S. Post Office.

O., Toledo—FREIGHT ELEVATOR—June 1, by Treas. Dpt. at office Sup. Archt., Wash., D. C., freight elevator, hatchway and platform at U. S. Court House, Custom House, etc.

Ore., Portland—BOILERS—June 2, by U. S. Eng., Custom House, 2 boilers capable of generating 45,000 lb. steam per hr. and installing same in U. S. Dredge "Co. P. S. Michie" in Willamette River at Government Moorings.

Pa., Phila.—DREDGING—May 31, by U. S. Eng., 597,000 cu.yd. in Delaware River, lower Philadelphia Harbor. Noted May 12.

Va., Cape Charles—POST OFFICE—June 3, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted Sept. 3.

Va., Lynchburg—ELEVATOR PLANT—June 1, by Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator plant in U. S. Post Office.

Washington—JETTY—June 3, by U. S. Eng., Burke Bldg., Seattle, jetty, dike and revetment job at mouth Quillaynte River. $35,000-$40,000.

Wash., American Lake—SEWERS—June 6, by Vet. Bu., Veterans Administration Hospital, Palo Alto, Calif., clearing, excavating manholes, screen chamber for outfall sewer, at U. S. Veterans Hospital.

Wis., Kenosha—POST OFFICE—June 2, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office.

CONTRACTS AWARDED

Calif., San Ysidro—INSPECTION STATION—Treas. Dpt. at office Sup. Archt., Wash., D. C., inspection station, to R. E. McKee, 1918 Texas St., El Paso, Tex., $93,800. Noted Apr. 14.

Calif., Sunnyvale—DISTRIBUTING SYSTEM—Spec. 6813 — Yards & Docks, Navy Dpt.,

Federal Government (Continued)

Wash., D. C., underground electric distribution and street lighting systems, to NePage McKenny Co., 7 Front St., San Francisco, $62,887 (180 days). Noted Apr. 7.

D. C., Wash.—DREDGE HULL—U. S. Eng., 1 wooden dredge hull for Dredge "Dalecaria," to M. M. Davis, Solmons, Md., $7,500. Noted Mar. 17.

D. C., Wash.—EXTENSIBLE BUILDING—Treas. Dpt. at office Sup. Archt., Wsah., D. C., constructing 5 wings extensible building for Dpt. Agriculture, to Aronberg-Fried Co., Inc., 1248 3rd Ave., New York, $5,380,000 (720 days). Noted Apr. 7.

Fla., Jacksonville—FEDERAL BUILDING—Treas. Dpt. at office Sup. Archt., Wash., D. C., excavating and foundation for new federal building, to J. A. Jones Constr. Co., Commercial Bank Bldg., Charlotte, N. C., $41,644. Noted Apr. 21.

Ga., Marietta—REMODELING—Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling and enlarging U. S. Post Office, to Barge-Thompson Co., 136 Ellis St. N. E., Atlanta, $15,890. Noted Mar. 10.

Illinois—LEVEE—U. S. Eng., 1st Chicago Dist., 333 North Michigan Ave., Chicago, 1,150 ft. earth levee on Wirtz Levee between Illinois and Michigan Canal, and Illinois Traction System right-of-way 1.25 mi. northeast Starved Rock Dam, to J. E. Gudgell, Tampico, Ill., $2,655 (50 days). Noted Apr. 14.

La., Baton Rouge—ELEVATOR PLANT—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator plant to U. S. Post Office and Court House, to American Elevator & Mchy. Co., 500 East Main St., Louisville, Ky., $10,442. Noted Mar. 24.

Md., Baltimore—ELEVATOR PLANT—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator plant at U. S. Marine Hospital, to Otis Elevator Co., 810 18th St., Wash., D. C., $30,281.

Mich., Selfridge Field — ROADS, etc. — Con. Q. M., rods, curbs, sidewalk and drainage at Selfridge Field, to Cleveland-Trinidad Paving Co., 715 Hammond Bldg., Detroit, $5,244.

Miss., Meridian—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., general contract U. S. Post Office, to Ralph Sollitt & Sons Constr. Co., South Bend, Ind. Noted Apr. 7.

New York—DREDGING—U. S. Eng., Army Bldg., 39 Whitehall St., New York, 49,980 cu.yd. ledge rock and 27,850 cu.yd. other material from Halletts Point Reef, Way Reef, and Woolsey Reef, in East River, to Great Lakes Dredge & Dock Co., 17 Battery Pl., New York, $255,259. Noted Mar. 17.

N. Y., New York—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to James Stewart & Co., Inc., 230 Park Ave., $975,000. Noted Apr. 28.

Okla., Miami—ELEVATOR—Treas. Dpt. at office Sup. Archt., Wash., D. C., passenger elevator, to Kimball Bros., Council Bluffs, Ia., $4,343.

Pa., Pittsburgh—TRANSMISSION VALVES—U. S. Eng., Keenan Bldg., transmission valves, accumulators, automatic bypass and coal hoists, to Monessen Fdry. & Mchry. Co., Monessen, $6,914.

S. C., Fort Moultrie — ELECTRICAL DISTRIBUTION, etc.—U. S. Eng., Wash., D. C., electrical distribution and street lighting to Mill & Marine Electric Co., Gastonia, N. C., $11,000. Noted Apr. 21.

Vt., Brattleboro—WATER PIPE—Treas. Dpt. at office Sup. Archt., Wash., D. C., water pipe, water heater, water tank and appurtenances to W. W. Durnall, Inc., Lakeland, Fla., $1,700. Noted Apr. 28.

Va., Langley Field — MAGAZINES — Con. Q. M., 4 magazines to Jones Bros. & Co., Wilson, N. C., $5,690. Noted Feb. 11.

W. Va., Huntington—ELEVATORS—Vet. Bu., Arlington Bldg., Wash., D. C., elevators, to Otis Elevator Co., 810 18th St., Wash., D. C., $13,978. Former contract revoked.

Wyo., Torrington—POSTOFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Busboom & Rauh, Salina, Kan., $52,500. Est. $60,000. Noted Apr. 14.

RAILWAYS

PROPOSED WORK

Delaware—Delaware Electric Power Co., 834 Market St., Wilmington, expending $117,000 within next 2 or 3 years, rebuilding track and paving track area in Wilmington.

BIDS ASKED

New Jersey—June 9, at office J. T. Congleton, dir. Dpt. P. Affairs, City Hall, Newark, constructing portion City Railway, Section 6, in bed Morris Canal from Orange St. to vicinity Heller Parkway in Newark; adv. E. N.-R. May 19.

GRADE CROSSINGS

PROPOSED WORK

N. Y., Buffalo—Buffalo, Rochester & Pittsburgh R.R. Co., subsidiary Baltimore and Ohio R.R., H. A. Lame, ch. engr., Baltimore, Md., eliminating Hopkins and Marilla Streets Crossings and extending Hopkins St. $300,000.

Texas—State Hy. Comn., W. R. Ely, chn., Austin, preparing plans steel, concrete overpass over Missouri, Kansas & Texas R.R., on Hy. 31, Federal Aid Project 605-B, McLennan Co. $50,000. G. G. Wickline, Austin, bridge engr. Noted Aug. 6.

CONTRACTS AWARDED

Conn., Buckland—New York, New Haven & Hartford R.R. Co., E. E. Oviatt, ch. engr., New Haven, reconstructing underpass at Buckland, to Lathrop & Shea Co., 178 Goffe St., New Haven. Est. $25,000.

PIERS AND WHARVES

PROPOSED WORK

Miss., Gulfport—Bill has been introduced in upper chamber of State Legislature, replacement of dock system recently destroyed by fire. $200,000 loss.

BIDS ASKED

Ont., Midland—June 2, by N. Desjardins, secy. Dpt. P. Wks., Ottawa, wharf, warehouse, approach and dredging slip adjacent to wharf. $30,000.

AIRPORTS

PROPOSED WORK

R. I., Hillsgrove—State, Airport Comn., administration building and bleachers at State Airport. To exceed $25,000. Jackson, Robertson & Adams, 1216 Turks Head Bldg., Providence, engrs.

Tex., Fort Worth—City plans 2 story hangar and 120 x 235 ft. administration building at airport, Meacham Field. $150,000. American Airways, 122 East 42nd St., New York, c/o C. R. Smith (in charge), Fort Worth, lessee.

BIDS ASKED

La., New Orleans—May 27, by Orleans Levee Bd., furnishing labor, materials constructing and placing 3,000 lin.ft. Fascine Mattress ballasted with rock as subaqueous protection work at outer end of Shushan Airport.

CONTRACTS AWARDED

Calif., San Diego — Ryan Aeronautical Co., Barnet St., 100 x 120 ft. hangar with 20 x 60 ft. ell for shop, entrance 120 ft. width, and 4 story, tower, rein.-con., brick administration building, incl. depot, restaurant, offices, Lindbergh Field, to Olmstead Building Co., 1847 Hancock St., $20,000 and $60,000 respectively.

Ia., Cedar Rapids—Cedar Rapids Airways, Inc., D. Hunter, pres., rebuilding concrete, steel airplane hangar destroyed by fire, local labor. Est. $25,000.

POWER AND LIGHTING

PROPOSED WORK

New York—New York Power & Light Co., 126 State St., Albany, applied to Pub. Serv. Comn. for permit to construct electric distribution system, in Sharon and Canajoharie, Schoharie Co. To exceed $25,000.

BIDS ASKED

Minn., Waconia—May 31, by City, furnishing, constructing municipal light and power distribution plant. $25,000 special bond issue election later. O. H. Ortlip, city recdr.

N. Y., Marcy — June 8, by Dpt. Mental Hygiene, State Office Bldg., Albany, extending street lighting at Marcy State Hospital; adv. E. N.-R. May 19.

CONTRACTS AWARDED

Maryland—See "Bridges."

N. Y., Dongan Hills—J. G. W. Greeff, comr. Hospitals, Municipal Bldg., New York, fire alarm system in buildings New York City Farm Colony, to Martin Epstein Co., 567 Monroe St., Brooklyn, $17,100. Noted Jan. 14.

N. Y., New York—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., furnishing, installing, ventilation equipment for Line C, from 145th St. to Webster Ave., forming part Independent System City-owned Rapid Transit Railroads, Equipment Contr. L-47, to Wagner Eng. Co., 598 11th Ave. $94,000. Noted Apr. 14.

Man., Winnipeg—City, M. Peterson, clk., City Hall, lighting equipment for Salter St. viaduct, to Bentz Richardson Co., Ltd., 120 Lombard St., lighting standards, $1,682; to Northern Electric Co., 65 Rorie St., fixtures, $1,484, transformers, subway conduits and distributors $2,797, cables $440; to Dominion Constr. Co., Ltd., 447 College Ave., electrical conduits $1,534; to H. Borger & Sons, 414 Church Ave., supplying, installing electric cables, $1,005; to Power, Light & Devices, Ltd., National Cartage Warehouse, supplying, installing electric light cables for new Assiniboine Park Bridge, $1,062. Grand total $10,004. Noted Feb. 4 under "Bridges."

PARKS AND SPORTS

PROPOSED WORK

La., Shreveport — Biedenharn Park, c/o Shreveport Baseball Club of Texas League, reconstructing ball park damaged by fire. $40,000.

BIDS ASKED

Mass., Cambridge — E. Lynch, 2301 Mass. Ave., taking bids 1 story, 150 x 200 ft., timber, rein.-con. flooring, open air dance pavilion, 598 Mass. Ave. $25,000 or more. M. Louis, 73 Cornhill, Boston, archt.

Mo., St. Louis—June 14, by Bd. P. Serv., City Hall, 25 x 125 ft., 25 x 80 ft., 18 x 125 ft. concrete, steel, glass greenhouse and heating system for greenhouses in Forest Park. $38,000. F. Updegraff, 329 Municipal Courts Bldg., engr. Noted Mar. 24.

O., Youngstown—G. Cook, city engr., taking bids bath house and filter plant.

Tex., Washington—May 25, by Washington State Park Comn., completion and additions to auditorium building, Washington State Park. Giesecke & Harris, Norwood Bldg., Austin, archts.

CONTRACTS AWARDED

Mass., Boston—Park Dpt., 33 Beacon St., excavating, grading, concrete steps, Parker Hill Playground, Roxbury, to Coleman Bros., Inc., 245 State St., Boston. Est. $25,000. Noted Apr. 14.

Minn., Minneapolis—F. S. Gram, city purch. agt., City Hall, constructing cement work, sidewalks, tennis courts, for Park Comn., to Gust Falden, c/o Bd. Park Comrs., City Hall, $25,930. Noted Apr. 28.

Mo., University City—Park Bd., A. E. Veith, chn., and J. K. Monteith, park comr., 150 x 190 ft. rein.-con. swimming pool and 1 story, 80 x 120 ft. concrete, brick bathhouse in Heman Park, to Higbee Constr. Co., 4164 Delmar Blvd., St. Louis, $34,744; filter system, to E. W. Bacharach & Co., 207 Rialto Bldg., Kansas City, $11,353. Excavation by day labor. Noted Mar. 21.

Wash., Seattle—H. H. Ginnold, archt., Arcade Bldg., rebuilding concrete, steel natatorium at Duwamish Head, West Seattle, to O. E. Welden, 1710 Dayton Ave., for Luna Park, Inc. $80,000. Noted July 9, 1930.

HEATING AND VENTILATING

BIDS ASKED

N. Y., Corona—May 24, by W. C. Martin, archt. and supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, heating, ventilating, plumbing and drainage, electrical work and lighting fixtures, for P. S. 16 addition, 104th St., between 41st and 42nd Aves., for Bd. Educ., 500 Park Ave., New York.

N. Y., Oswego—June 9, by Commissioner Dpt. Educ., Education Bldg., Albany, ventilating apparatus at Industrial Teachers' Training Building, New York State Normal School; adv. E. N.-R. May 19.

O., Columbus—June 10, by Dpt. P. Welfare, 9th and Oak Sts., J. McSweeney, dir., heating and boiler feed water system, pumping at Ohio Penitentiary.

CONTRACTS AWARDED

Mass., Boston—C. L. Churchill, 9 Newbury St., archt., heating and ventilating in publishing building, Norway and Falmouth Sts., to J. S. Cassedy, 133 Austin St., Cambridge, for Christian Science Publishing Society, c/o Architect. Est. exceeds $25,000. Noted Aug. 27, under "Commercial Buildings."

Mass., Fall River—St. Matthews Parish, G. F. Cain, pastor, heating and plumbing in convent, to Lagasse Bros., 23 9th St.; electrical work, to Bradey Electric Co., 236 Bedford St. Est. $25,000. Noted Mar. 17, under "Churches."

Mass., Gloucester—Phillips & Halloran, archts., 191 Main St., heating and plumbing in hospital annex, to L. E. Andrews & Co., 121 Main St., for addition Gilbert Hospital. $25,000. Noted Apr. 21, under "Hospitals, Contracts Awarded."

N. Y., Dannemora—Dpt. Correction, State Office Bldg., Albany, heating and service connections at Dannemora State Hospital, to L. L. Lewis Co., 122 East 42nd St., New York, $34,935; electrical work and service connections, to Langdon & Hughes, 246 Elizabeth St., Utica, $24,929; steam duct at Clinton Prison, Dannemora State Hospital, to B. C. and F. Contg. Co., 108-22 50th Ave., Long Island City, $21,991. Grand total $81,855. Noted Mar. 31.

N. Y., Ithaca—Commissioner Dpt., Education, Education Bldg., Albany, heating in Agricultural Economics Building, to Barr-Creelman Co., 74 Exchange St., electric elevator, to A. B. See Elevator Co., 52 Vesey St., service connections, to F. A. Mott Electric Co., 196 Chestnut St., Rochester, $4,890. Grand total $33,696. Noted Mar. 10, under "Unclassified."

UNCLASSIFIED

PROPOSED WORK

N. J., Atlantic City—COMMUNITY DEVELOPMENT—Interstate Properties Corp., R. S. Harnsberger, Inc., S. N. Bobo, 49 Wall St., New York, sketches completed 2 story, basement, brick, steel community development, incl. club house, residences, street improvements, water and sewage, Atlantic Ocean front. $150,000. **Maturity in July.**

N. J., Elizabeth—MAUSOLEUM—Corporation, c/o F. A. Reed, archt., 1221 East Grand St., sketches completed, 1 story, basement, brick, granite mausoleum. $200,000.

Unclassified (Continued)

Pa., Phila.—CAVALRY STABLES—Commonwealth of Pennsylvaina, Dpt. Military Affairs, Harrisburg, plans by H. Johnson, Architect Bldg., and takes bids about August, calvary stables, 32nd St. and Lancaster Ave. $70,000.

BIDS ASKED

Mass., Scituate—RIP RAP—May 24, by Commonwealth of Massachusetts, Dpt. P. Wks., A. W. Dean, engr., Boston, placing 2,000 tons stone rip rap at Second Cliff.

New York—TURN STILE EQUIPMENT—June 3, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, furnishing, installing turnstile equipment complete and ready for operation incl. railings, gates, appurtenance on Lines A, B, C D and E, portion Independent System City-owned Railroads, in Manhattan, Brooklyn and Queens Boros.

N. Y., Auburn—ELEVATORS—June 7, by Commissioner Dpt. Correction, State Office Bldg., Albany, electric elevators in shop building and storehouse, Auburn Prison; adv. E.N.-R. May 19.

N. Y., Bedford Hills—REFRIGERATION WORK—June 14, by Dpt. Mental Hygiene, State Office Bldg., Albany, refrigeration work, housing for medical center, Westfield State Farm; adv. E.N.-R. May 19.

N. Y., Brooklyn—SUBWAY STRUCTURE MODIFICATION—May 27, by Bd. Transportation J. H. Delaney, chn., 250 Hudson St., New York, modifying subway structure to provide for crossover on Route 110, Sect. 5, Independent City-owned Rapid Transit Railroad system, agreement "LU."

N. Y., Iroquois—ELEVATOR—June 2, by Superintendent Div. Standards & Purchase, State Office Bldg., Albany, electric elevator at storehouse, Thomas Indian School; adv. E.N.-R. May 19.

N. Y., Pocantico Hills—STABLES—May 27, by J. D. Rockefeller, Jr., 26 Bway., superstructure stables and silo, $150,000. G. Atterbury, 130 East 53rd St., New York, archt. Noted Feb. 18.

CONTRACTS AWARDED

Calif., Piedmont—MAUSOLEUM—Mt. View Cemetery Assn., terminus of Piedmont Ave. (1st unit), rein.-con. addition, to G. J. Maurer, 50 York Dr., Oakland, $90,379.

Calif., Santa Rosa—MAUSOLEUM—United Mausoleum Co., c/o F. H. Slocombe, archt., 3830 Harrison St., Alameda (1st unit), rein.-con. mausoleum, to A. H. Hildebrandt, 406 4th St., $65,000. Noted Apr. 21.

Mass., Southbridge—RETAINING WALL, etc.—C. D. Harrington, Southbridge, 300 lin-ft. rein.-con. retaining wall, 300 granite curb, 4,000 ft. grading, to F. X. Laliberte & Son, Inc., Southbridge. Est. $25,000 or more.

N. Y., Napanoch—REFRIGERATION—Dpt. Correction, State Office Bldg., Albany, refrigeration work for storehouse, Institute for Defective Delinquents, to Carbondale-New York Co., 175 Christopher St., New York, $23,987. Noted Apr. 14.

N. Y., New York — TELEPHONE EMERGENCY EQUIPMENT—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., installing telephone and emergency alarm equipment for portion Independent System City-owned Rapid Transit Railroads, to Kiersey Ryan, 155 East 44th St. Noted Apr. 7.

North Carolina—PRISON CAMP—State Hy. Comn., Morgan St., Raleigh, 100 man prison camp, 1 mi. northwest of Spindale, own forces. Bids May 20 by owners, plumbing, electrical work, roofing for same. L. R. Ames, Raleigh, engr.

Pa., Pittsburgh — HAND RAILING — Allegheny Co., hand railing for South 10th St. Bridge 11 over Monongahela River, to Hunter Steel Co., 801 Beaver Ave., $19,920; electrical work, to Raphael Electric Co., Frick Bldg., $5,125.

Man., Churchill—FREIGHT SHED, etc.—J. W. Pugsley, Secy. Dpt. Railways & Canals, Ottawa, Ont., freight shed on main dock, to Carter-Halls-Aldinger Co., Ltd., Royal Bank Bldg., Winnipeg, to exceed $100,000. Noted Mar. 31.

MATERIALS

BIDS ASKED

ROCK, OIL, etc.—**San Leandro, Calif.**—June 1, by E. F. Hutchings, city clk., furnishing rock and screenings for year ending June 30, 1933; furnishing, spreading oil on streets for year ending June 30, 1933.

COAL TAR — **Florida** — See "Streets and Roads."

GRAVEL, etc.—**Clinton, Ill.**—May 24, by Bd. Supervs. DeWitt Co., 10,820 cu.yd. traffic bound surface course material, either gravel or crushed stone. G. E. Baker, c/o State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, engr. county roads.

WATER PIPE—**Chicago, Ill.**—May 25, by Dpt. P. Wks., City Hall, furnishing, delivering at various city pipe yards 1,024 tons 4 and 12 in. c.i. water pipe.

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GRAVEL—**Carroll, Ia.**—May 24, at office Auditor Carroll Co., 19,000 cu.yd. maintenance gravel, 5,200 cu.yd. construction gravel, 3,000 cu.yd. on line between Carroll and Calhoun Counties and 2,000 cu.yd. between Carroll and Sac Counties.

GRAVEL, SAND, etc.—**Louisiana**—May 31, by State Hy. Dpt., Baton Rouge, washed gravel, screen gravel, 40% sand-clay gravel, reef shell, clam shell, crushed limestone, slag, and sand in quantities required by Maintenance Dpt. during month of June. H. B. Henderlite, hy. engr.

SHAFTS, PIPING, etc.—**Swampscott, Mass.**—June 2, by Town, Water and Sewer Bd., furnishing, installing shafts, piping, valves, etc., in pumping station Humphrey St. $5,000.

ASPHALTIC ROAD OIL—**Austin, Minn.**—May 23, by City, 100,000 gal. asphaltic road oil. G. L. Brown, city engr.

ROAD OIL—**Freehold, N. J.**—June 8, by Bd. Freeholders Monmouth Co., Court House, 87,000 gal. more or less asphaltic road oil. G. K. Allen, Jr., Red Bank, co. engr.; adv. E. N.-R. May 19.

PORTLAND CEMENT, etc.—**Brooklyn, N. Y.** May 25, by H. Hesterberg, pres. Brooklyn Boro, Boro Hall, 3,000 bbl. portland cement, 400,000 gal. asphaltic cement for sheet asphalt and bituminous concrete mixtures "B" in liquid form; 250,000 gal. asphalt road oil for cold application, to be delivered by rail or any or all railroad stations in Brooklyn Boro; 15,000 cu.yd. asphalt sand; 15,000 cu.yd. binder stone.

ASPHALT PAVING BLOCKS, etc.—**Long Island City, N. Y.**—May 23, by G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., 100,000 asphalt paving blocks; 5,000 gal. motor oil; 13,057 cu.yd. cementitious road gravel.

CONNECTION SLEEVES—**New York, N. Y.**—May 23, by M. F. Kenny, deputy acting comr. Purchase, Municipal Bldg., wet connection sleeves and valves to Dpt. Water Supply, Gas & Electricity, Boros of Manhattan, Brooklyn, Queens and Richmond.

CAST IRON PIPE—**Oklahoma City, Okla.**—May 24, by M. Peshek, Jr., city clk., 1,800 tons c.i. water pipe, incl. 47,000 ft. 6 in., 17,000 ft. 8 in. and 13,000 ft. 10 in. pipe, also 80 fire hydrants, 14 tons fittings. $55,000. T. G. Banks, City Hall, engr.

ASPHALT—**Superior, Wis.**—May 24, by State Hy. Comn., 1,160,000 gal. asphalt Type "CC" 60-70 and 70-80, Bayfield and Douglas Counties; 910,000 gal. Type "CC" 60-70, Burnett, Washburn and Sawyer Counties; 840,000 gal. Type "CC", 60-70, Barron, Polk and Rusk Counties; 110,000 gal. Type "CC" 60-70, Polk Co.

PENETRATION ASPHALT, etc.—**Winnipeg, Man.**—May 25, by M. Peterson, city clk., City Hall, penetration asphalt, asphalt cement, and fluxing oil for City Engineer's Dept. W. P. Brereton, 223 James Ave., engr.

CONTRACTS AWARDED

WATER PIPE—**Bristol, Conn.**—Municipality, 180 tons 10 in. c.i. water pipe, to Donaldson Iron Wks., Emaus, Pa.

WATER PIPE—**Stamford, Conn.**—Municipality, more than 100 tons c.i. water pipe, to Donaldson Iron Wks., Emaus, Pa.

CULVERT PIPE—**Cedar Rapids, Ia.**—Linn Co., 13,550 ft. culvert pipe, to Iowa Culvert & Pipe Co., Des Moines, $11,148, and to Klauer Mfg. Co., Dubuque, $1,000; 29,000 lb. dynamite, to Harper & McIntire Co., 411 6th Ave., Cedar Rapids, and to Larimer Hardware Co., 120 South 1st St., $2,498 each. Grand total $17,144.

STEEL—**Greenfield, Ia.**—See "Bridges," under "Proposed Work."

GRANITE PAVING BLOCKS—**Portland, Me.**—City, Purchasing Agt., City Bldg., 50,000 standard granite paving blocks, to Maine and New Hampshire Granite Corp., North Jay, at $81 per 1,000.

WATER PIPE — **Arlington, Mass.** — Municipality, 200 tons 6 and 8 in. c.i. water pipe, to Warren Fdry. & Pipe Co., Wharton, N. J. Noted Apr. 7, under "Waterworks."

CAST IRON PIPE—**Saugus, Mass.**—Municipality, 100 tons c.i. water pipe, to Warren Pipe & Fdry. Co., Wharton, N. J.

PORTLAND CEMENT—**Detroit, Mich.**—Dpt. Purchase & Supplies, 60,000 bbl. portland cement as required, f.o.b. city yards or on job by truck to city departments, incl. Street Railway Dpt., to Huron Portland Cement Co., 1325 Ford Bldg., at $1.62 per bbl. in cloth, $1.37 per bbl. in paper and $1.22 per bbl. in bulk.

STONE, etc.—**Minneapolis, Minn.**—F. S. Gram, city purch. agt., to Trap Rock Co., 1128 Plymouth Bldg., 20,000 tons stone (trap rock), ¼- to ½-in. at $2.25 per ton, ½- to 1-in., ¾- to 1½-in. at quarry, $1.75, to Landers-Morrison-Christienson Co., 800 Builders' Exch., 2,000 tons mineral dust at $5.2475 per ton net cash. Noted May 5.

SEWER PIPE—**Vicksburg, Miss.**—S. S. Patterson, city clk., 5,200 ft. vitr. clay pipe, No. 1 A.S.T.M. and 30 Ys 8 x 6, to Mississippi Lumber Co., Vicksburg at 16c. and 85c. per ft. respectively.

PIPE, etc.—St. Louis, Mo.—N. K. Maston, supply comr., City Hall, 8,400 ft. 36 in. steel water pipe, to McClintic-Marshall Corp., Bethlehem, Pa., $5.59 per ft.; 2,600 lin.ft. 4 ft. high iron and steel fence, to be placed on roof Compton Hill water storage reservoirs, to Spuck Iron & Fdry. Co., 3145 North 14th St., $2,586. Noted Apr. 28, under "Waterworks."

ROAD OIL—**Cohoes, N. Y.**—Bd. Contr. & Supply, City Hall, furnishing, applying 250,000 gal. road oil on various streets, to Standard Oil Co., 26 Bway., New York, at 8.25c. per gal.

CURBING—**Cleveland, O.**—City, to Cleveland Quarries Co., Builders Exch. Bldg., 3,000 ft. 5 in. sandstone curbing at 72c. f.o.b. and $0.8[illegible] delivered, 500 ft. 7 in. at $1.04 f.o.b. and $1.15 delivered; to Northern Granite & Stone Co., 1276 West 3rd St., 5,000 ft. granite curbing at 85c. f.o.b. and 94c. delivered.

CONCRETE, STEEL, etc.—**Bellevue, Pa.**—J. M. Simeral, boro secy., paving materials for improving Forrest Ave., reinforcing steel, to Knox, Strauss & Bragdon, 1725 Juniata St. N. S. Pittsburgh, at 2½c. per lb.; expansion joint material, to Smith Steel Supply Co., Park Bldg., Pittsburgh, at 14.7c. per lin.ft.; mixed concrete, to Kissane Supply Co., South 1st St., Pittsburgh, at $6 per cu.yd.

PAVING BLOCKS—**Brackenridge, Pa.**—Boro, 40,000 No. 2 vitrified paving blocks, to Crescent Brick Co., Grant Bldg., Pittsburgh, at $17.90 per 1,000, f.o.b. Brackenridge.

PIPE—**Seattle, Wash.**—Bd. P. Wks., City Hall, 28,000 ft. ¾ in. and 5,000 ft. pipe, to Pacific Water Wks. Supply Co., Atlantic St., at $8.25 per hundred and $11.70 per hundred respectively.

EQUIPMENT

PROPOSED WORK

TRUCK TRAILER and CHASSIS—**Oakland, Calif.**—East Bay Municipal Utility Dist., 512 16th St., purchasing truck, trailer and chassis.

WATER REGULATORS—**Ogden, Utah**—City purchasing 2 water regulators. $1,800. J. C. Brown, city engr.

NEW METERS—**Winnipeg, Man.**—City, purchasing supply of new meters. $20,000 appropriated. W. P. Brereton, 223 James Ave., engr.

BIDS ASKED

CROSS-DRUM WATER TUBE BOILERS, etc. **Wilmington, Del.**—May 23, by State, Old Age Welfare Comn., 800 Equitable Bldg, two 150 hp. cross-drum water tube boilers, stokers, breeching, etc. R. P. Schoenijahn, 303 Industrial Trust Bldg., consult. engr.

PASSENGER BUSES—**Wilmington, Del.**—Delaware Electric Power Co., 834 Market St., in market two 29 passenger buses for operation in Delaware and four 21 passenger buses for operation in Pennsylvania. This is handled by subsidiary known as Delaware Bus Co., 606½ French St.

TRUCKS—**Indiana**—May 23, by State Hy. Comn., at office J. J. Brown, dir., 102 North Senate Ave., Indianapolis, 27 trucks of 3-ton classification.

STREET SWEEPERS—**Indiana**—May 24, by State Hy. Comn., 102 North Senate Ave., Indianapolis, 5 to 7 street sweepers with brush approximately 6 ft. long for use with industrial type tractors. J. J. Brown, dir.

MOWERS—**Indiana**—May 25, by State Hy. Comn., 102 North Senate Ave., Indianapolis, 50 to 70 horse or power drawn heavy duty, high lift mowers. J. J. Brown, dir.

KETTLES, COMPRESSORS, etc.—**Iowa**—May 24, by State Hy. Comn., Ames, 5 tar kettles, 4 (gasoline motor) and 3 (electric motor) small air compressors, 3 truck blades, 24 Chevrolet or Ford hydraulic dump bodies, 1 F.W.D. hydraulic dump body, 2 light gasoline ⅝ yard draglines, 2 trailers for draglines, 1 crawler tractor-caterpillar 60 Class (10 ton Holt to be taken on trade).

PATROL—**Hutchinson, Minn.**—May 23, by City, 1 power patrol with 12 ft. blade.

POWER PLANT EQUIPMENT—**Lincoln, Neb.**—June 1, by T. H. Berg, city clk., power plant equipment, incl. one 4,000 kw. turbo-generator and switchboard, cooling water circulating pump, electric driven condensate removal pump, steam turbine, 2 steam jet air pumps, for A St. Pumping Station. $120,000.

MANHOLE HEADS, etc.—**Brooklyn, N. Y.**—May 25, by H. Hesterberg, pres. Brooklyn Boro. Boro Hall, manhole heads and covers for Bureau Sewers for 1932.

PUMPER—**Columbus, O.**—May 26, by Bd. Purchases, D. C. Westernhaver, secy., one 750 gal. triple combustion pumper fully equipped.

SCALES—**Ebensburg, Pa.**—May 23, by Boro., A. M. Shoemaker, secy., furnishing, setting complete, incl. foundations one 20 ton or one 30 ton, 28 x 9 ft. platform auto truck scales, concrete deck, any approved make, f.o.b. Ebensburg.

PUMPING EQUIPMENT—**Salt Lake City, Utah**—See "Contracts Awarded."

GENERATOR—**Sifton, Man.**—Y P Club, Sifton, in market one 3 kw. 110 volt generator.

CONTRACTS AWARDED

PUMPING EQUIPMENT, etc.—**Auburn, Ind.**—City Council, furnishing, installing pumps, Sterling Engine and G E. motor, to Manistee

Equipment (Continued)

Iron Wks., Manistee, Mich., $4,567: master meter, to I. C. DeHaven Co., repr. for Cochran Meter Co., Indianapolis, Ind., $387. Noted Mar. 24, under "Waterworks."

PISTONS, etc.—**Leland, Miss.**—City Aldermen, reboring 4 cylinders on 16 x 20 Fairbanks Morse Diesel oil engine, furnishing pistons, weighted and balanced for same, furnishing 4 new fuel injection pumps, 4 new cam rollers, new valves, for municipal waterworks and light plant, to Fairbanks-Morse Co., 1000 St. Charles St., New Orleans, La., $3,760.

WELL, PUMP, etc.—**Miamisburg, O.**—Village, 806 Union Trust Bldg., Dayton, C. A. Hamilton, serv. dir., 1 large diam. well, one 700 g.p.m. pump, pumphouse complete, water meter, compensator for 60 hp. motor, 2,800 ft. 10 in. Class B c.i. pipe, to Layne-Ohio Co., 1104 West Broad St., Columbus, $5,280. Noted May 2 Daily.

PUMPING EQUIPMENT—**Salt Lake City, Utah**—City, improving pumping equipment in 60th South Street pumping plant, day labor. $5,000. W. D. Beers, city engr.

FOREIGN

England, Manchester—Proctor & Gamble Co., Gwynne Bldg., Cincinnati, O., soon lets contract soap manufacturing plant and equipment. To exceed $500,000.

Iraq — Iraq Petroleum Co. Ltd., London, England, 1,300 mi. petroleum pipe line from Kirikuk in Iraq to Haditha where it forks, one branch through British territory and through Palestine to Haifa, other through French territory of Syria and Tripoli, involving 150,000 tons steel pipe, mostly 12 in. seamless, 50,000 tons about 350 mi. pipe awarded to Stewarts & Lloyds, London, England. Pumps and engines not purchased. Constructing equipment, housing facilities, telephone and telegraph lines and transportation equipment largely unplaced to date.

Mexico—Mexican Government, Mexico City, grading, sheet asphalt paving 65 mi. Tia Juana-Ensenada Hy., incl. bridges, culverts and replacing present wooden bridge at Tia Juana, to Southern California Constr. Co., 111 Mesnager St., Los Angeles, Calif., Border Telephone & Electric Light Co., Tia Juana, Mexico, and Puget Constr. Co., Seattle, Wash. Est. $2,000,000. Noted Jan. 7.

South Africa, Johannesburg — June 6, by Manager South African Railway & Harbor Comn., supply steel work for four 150 ft. skew through spans for Umlaas River Bridge, approximate weight steel work, rivets, etc., 687 tons.

Spain — Dpt. Communications, c/o Government, Madrid, plans radio broadcasting stations at Madrid, Seville and Valencia, also series of relay stations, incl. towers, power stations, and radio equipment. $500,000.

Commercial Buildings

PROPOSED WORK

PROPOSED WORK

Calif., Camarillo — State Dpt. Institutions. Sacramento, plans by G. B. McDougall, state archt., Sacramento (1st unit) State Mental Hospital, concrete, near here. $375,000. Total est. $3,000,000. Site selected. Noted Feb. 18, under "California."

Ill., Chicago—State of Illinois, Springfield, plans by C. H. Hammond, Springfield, for Illinois Host Building, 100 x 200 ft. with 70 ft. tower, for Century of Progress, Administration Bldg., Burnham Park. $175,000.

Mass., Fall River—City, Fire Dpt., Bristol St., new fire station, Parker Hill, Roxbury. $160,000. Architect not appointed.

Mass., New Bedford — St. Joseph's Roman Catholic Parish, J. A. Chagnon, pastor, Acushnet Ave., and F. A. Rousseau, archt., 271 Union St., rejected bids brick, stone church, Tobey St. and Acushnet Ave. $300,000. Noted Apr. 14.

Mass., North Dighton—St. Joseph's Roman Catholic Church, J. Shay, pastor, plans by Maginnis & Walsh, Statler Bldg., Boston, and soon takes bids 1 story, basement, brick, stone church plain found. $150,000.

Mass., Saugus—Town, J. A. Radden, chn. Building Com., sketches by Kilham, Hopkins & Greeley, 9 Park St., Boston, and A. Loring, assoc. archt., 21 Emery St., high school addition. $150,000. Noted Apr. 21.

Mass., Worcester—Holy Cross College, J. M. Fox, Holy Cross College, plans by Maginnis & Walsh, Statler Bldg., Boston, and takes bids early in June, brick, hollow tile, stone dining hall, incl. boiler house, cafeteria, laundry, offices. $300,000.

N. J., Hackensack—C. V. R. Bogert, archt., 210 Main St., bids in July, revising sketches 2 story, basement, 40 x 120 ft., brick, terra cotta, steel, stone club house and hall, Warren St., for Odd Fellows Assn., 153 Main St. Est. $150,000. Noted May 5.

N. J., Hackensack—J. H. Liebou, archt., 238 Main St., sketches for club house for Societa Santa Croce Camerina, c/o architect. Est. $16,000. Original plans abandoned. Noted May 12.

N. J., Hasbrouck Heights — Bd. Educ., R. Beyer, ch. Special Housing Comn., Franklin School, bids in July, Lincoln Grade School, 2 story, basement, brick, steel, rein.-con., Ottawa Ave. $150,000. State aid. E. Williams, 131 West Passaic Ave., Rutherford, archt. Noted Jan. 21.

N. J., Jersey City — Owner, c/o A. Peter, archt., 207 Market St., sketches completed 2 story, basement, brick, steel church addition. $150,000.

N. J., Jersey City—J. F. Gannon & Son, 921 Bergen Ave., plans by C. Shilowitz, 26 Journal Sq., 3 story, basement, brick, steel office and store, Journal Sq. $150,000.

N. J., Lakehurst — P. P. Cret, archt., 112 South 16th St., Phila., Pa., soon lets general contract 1 story, basement, tower, memorial chapel, Stacy Park, for American Legion Memorial Chapel Assn., S. A. Loneman, pres., Cramon Dr., Toms River. $150,000. Noted May 5.

N. J., Newark—D. J. Scrocco, archt., 440 Central Ave., Orange, soon takes bids (selected list bidders) on revised plans 2 story, basement, brick, steel church, rectory, Warwick and Lang Sts., for St. George Greek Catholic Church, G. N. Kandra, pastor, 89 Aster St. Est. $150,000. F. Nagy & Associates, Bethlehem, Pa., assoc. archts. Noted Mar. 31.

N. J., Penns Grove — Bethel Methodist Protestant Church, Penn St., rebuilding 2 story, basement, brick, steel church, plain found., Penn and West Harmony St. $150,000. **Maturity soon.**

N. J., Plainfield—C. C. Gordon, 437 North Ave., new bids in July, general contract 3 story, basement, brick, steel store and apartment, East Front St. $150,000. W. L. Finne, 124 West Jersey St., Elizabeth, archt. Noted Nov 26.

N. Y., Brooklyn — Brooklyn Children's Museum, Brooklyn Ave. and Park Pl., J. J. Shoonhaven, in charge of building com., sketches by L. Moore, 522 5th Ave., New York, children's museum. $750,000. Noted May 12.

N. Y., Brooklyn—Silver Home Constr. Co., 499 Pennsylvania Ave., plans by S. Millman, 1780 Pitkin Ave., 1 story, 40 x 98 ft. market, refrigeration, Livonia and Sheffield Aves.

N. Y., Brooklyn—Nurses' Club of Brooklyn, G. Hewlett, pres., 66 Court St., bids in September or later, 7 story club, Washington and Greene Aves. $450,000. Bowden & Russell, 19 West 44th St., New York, archts. Preliminary bids in, no action taken. Noted Apr. 14.

N. Y., New York—Bd. Educ., 500 Park Ave., sketches by W. C. Martin, Flatbush Ave. extension and Concord St., Brooklyn, P. S. 80 addition, Mosholu Parkway and Van Courtland Ave. To exceed $150,000.

N. Y., Poughkeepsie—Vassar College sketches by Allen & Collens, 75 Newbury St., Boston, Mass., 2 story, basement library addition. $150,000.

N. Y., Rochester—Bd. Trustees Reynolds Arcade, 10 story polished granite, limestone store and office building.

N. Y., Sag Harbor—Syndicate, c/o C. Jundt, Ferry Rd., seaside hotel. $1,000,000. **Maturity indefinite.**

N. Y., Suffern—Bd. Educ., Washington Ave., bids about July, Junior and Senior High School, brick, steel, $200,000. L. C. Licht, 4 Dean St., Englewood, archt. Bond election in June. Noted Apr. 7.

Pa., Erie—W. T. Monahan, archt., 805 Palace Hardware Bldg., soon lets contract O'Neil Memorial Tower and Chapel, 2 story, basement, 55 x 110 ft. with 6 story, 45 x 50 ft. tower, brick, stone, tile, East Cooper Mill Rd., for Mercyhurst College & Seminary, 501 East Cooper Rd. $150,000. Noted Feb. 25.

Pa., Jenkintown—Boro, G. H. Benzon, Jr., pres., G. M. Grayhill, secy., soon lets contract 2 story, basement, 36 x 77 ft., brick, limestone, steel high school addition. Heacock & Hokanson, 1211 Chestnut St., Phila., archts.

Pa., Morganza—Morganza Training School plans by Ingham & Boyd, Empire Bldg., Pittsburgh, probably take bids in June, 2 cottages on training school campus. $145,000. Noted July 30, 1931.

R. I., Providence—Rhode Island School of Design, 11 Waterman St., sketches by W. T. Aldrich, 30 Newbury St., Boston, Mass., museum, Waterman St. $150,000 or more.

R. I., South Kingston (mail Kingston)—Town Supt. Schools, sketches by W. R. Walker & Son, 49 Weybosset St., Providence, altering and constructing 2 story, basement, brick grammar school addition. $150,000.

Tex., San Antonio—Catholic Church, c/o A. J. Drossearts, archbishop, St. Mary's St., brick, rein.-con. girls' high school, plain found., in downtown dist. $200,000.

BIDS ASKED

Del., Smyrna—June 1, by Delaware State Old Age Welfare Comn., c/o Massena & Du Pont, archts., 921 Market St., Wilmington, general contract Delaware State Old Age Welfare Home. Noted Oct. 29.

Del., Townsend—May 27, by H. V. Holloway, 4130 Du Pont Bldg., Wilmington, 1 story, part basement, 108 ft. 6 in. x 117 ft. 6 in., brick, rein.-con. elementary and grade school, plain found., for Townsend Dist. School Comn. E. William Martin, Du Pont Bldg., Wilmington, archt. Delaware School Foundation, Du Pont Bldg., engrs.

La., New Orleans—M. Goldstein, archt., Amer. Bank Bldg., bids about June 1, college buildings for Dillard University. $2,000,000. Noted Nov. 27, 1931.

Md., Severn—May 24, by Buckler & Fenhagen, archts., 325 North Charles St., and W. H. Emory, archt., Baltimore Trust Bldg., both Baltimore, 2 story, brick, steel, cut stone, concrete high school, for Public School Comn. of Anne Arundel Co., Annapolis. $150,000. H. F. Doeleman, Baltimore Trust Bldg., Baltimore, engr.

Mass., Boston—Owner, c/o Hutchins & French, archts., 11 Beacon St., Boston, taking bids reconstructing 4 story, basement, brick apartment, Chestnut St. $150,000.

Mass., Lawrence — May 23, by Ashton, Huntress & Alter, archts., 477 Essex St., 3 story, basement, 80 x 110 ft., brick, steel, stone Y. W. C. A. building, Valley and Lawrence Sts., for Y. W. C. A., Mrs. G. D. Fitts. $150,000.

Mass., Wareham—May 24, by Town, B. C. Merry, chn. Building Com., and W. G. Upham, archt., 700 Washington St., Norwood, altering and constructing 2 story, basement, brick, stone high school additions, plain found., Marion Rd. $150,000. Noted Apr. 28.

N. H., Hanover—May 24, by Beta Theta Pi Fraternity, Dartmouth College and Wells & Hudson, archts., Main St., 3 story, basement, brick, stone fraternity house, plain found. $150,000 or more. Noted Feb. 25.

N. Y., Fairmount—June 1, by Comrs. Mental Hygiene, State Office Bldg., Albany, cottage for inmates, Syracuse State School; adv. E. N.-R. May 19.

R. I., East Providence (br. Providence) — Town, J. R. D. Oldham, supt. schools, taking bids 2 story, basement, 30 x 65 ft. addition to Bliss School, Orlo Ave., and 70 x 80 ft. addition to Arthur E. Platt School, Burnside Ave., brick. $160,000. Traficante & Niebuhr, 175 Taunton Ave., archt. Noted Mar. 24.

CONTRACTS AWARDED

Conn., New Haven—Trumbull College, Yale University Trustees, college dormitory, Elm St., to Marc Eidlitz & Son, 100 East 42nd St., New York. Est. exceeds $150,000. Contractor soon lets separate contracts.

Ill., Chicago—Century of Progress Exposition, Administration Bldg., Grant Park, for Agricultural Exhibit, 2 story, irregular sized, steel, steel and plywood siding, wood pile found., to E. W. Sproul Co., 2001 Pershing Rd. Est. $350,000. Noted Apr. 28.

Ind., Anderson—School Comrs. Washington Grade School, general contract 2 story, basement, rein.-con., steel, stone, to Eshelman & Sons Co., Anderson, $108,862; wiring, to Powell & Dorste, Anderson, $6,956; plumbing and heating, to Boys Bros., Anderson, $24,000. Grand total $139,818. Noted Apr. 21.

Md., Baltimore—Bd. Awards, 7 story, basement, brick, concrete, steel, stone, general hospital, 2,000,000 cu.ft. floor space, to J. H. Miller, Inc., Eutaw and Franklin Sts., $847,700. Noted Apr. 21.

Md., Owings Mills—H. P. Hopkins, archt., 347 North Charles St., Baltimore, 3 story girls dormitory, brick, rein.-con., to Davis Constr. Co., 9 West Chase St., Baltimore. $150,000. Noted Apr. 28.

Mass., Boston — Massachusetts College of Pharmacy, 179 Longwood Ave., 4 story, 42 x 68 ft., 1st unit wing addition, containing advanced chemistry laboratory, stock rooms and cafeteria, to Chase & Gilbert, Inc., 31 St. James Ave., $85,000. Noted Mar. 31.

Mass., Fall River—Fall River Women's Club c/o Darling & Parlin, archts., 56 North Main St., altering and constructing 3 story, basement, brick, stone club addition, plain found., Walnut St., to J. M. Darling, Jr., 878 South Main St. Est. $150,000.

Mass., Franklin—St. Mary's Roman Catholic Church, E. Kenney, pastor, 3 story, basement, limestone, steel rectory, concrete found., incl. excavating and grading about church, to R. H. Sewell & Co., Franklin. Est. $150,000.

Mass., Newton—Andover-Newton Theological Institution, E. C. Hendrick, pres., 169 Institution Ave., 2 story, basement, brick, stone dormitory for married students, plain found., to J. S. Mozzicato, 12 Hancock St., Medford. Est. $150,000. Noted May 12.

Mass., Ware — Town, W. R. Barry, supt. Schools, for Junior High School, 2 story, basement, brick, stone, plain found., Church St., to E. J. Pinney Co., Springfield. Est. $150,000. Noted Apr. 28.

Me., Skowhegan—State, H. C. Hansem, dir. International Serv., altering and constructing 2 story, basement, brick detention building addition at reformatory for women, plain found., to Blais Bros., 50 Summer St., Waterville. Est. $150,000.

N. H., Dover—Morrill Block, Dover, c/o A. H. Bowditch, archt., 44 Bromfield St., Boston, Mass., 2 story, basement, 60 x 200 ft., brick, steel store, office, plain found., to Leighton-Mitchel Co., 99 Chauncy Co., Boston, Mass. Est. exceeds $150,000. Noted Jan. 21.

N. J., Hackensack — Sears-Roebuck & Co., Arthington and Souh Homan Aves., Chicago, Ill., 3 story, basement, tower, 300 x 450 ft., rein.-con. department store, to W. Kidde Constructors, 140 Cedar St., New York; excavation, to G. M. Brewster & Sons, 253 West Fort Lee Rd., Bogota; structural steel, to Jerome Iron Wks., 425 Bareto St., New York. Contractor soon lets other contracts. Est. $1,000,000, incl. equipment. Noted Apr. 28.

N. J., Jamestown—Adjutant General, Div. Military and Naval Affairs, Albany, general contract state armory, to Longacre Eng. & Constr.

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Commercial Buildings (Continued)

Co., 345 Madison Ave., New York, $162,248; heating, to Murphy & Beaumont, 303 West 42nd St., New York, $10,244; sanitary work, to Hudson Falls Hardware Co., 186 Main St., Hudson Falls, $6,451; electrical work, to O'Connell Electric Co., 63 Mount Hope Ave., Rochester, $3,642. Grand total $182,585. Noted Apr. 28.

N. Y., Albany—F. H. Newman, ch. Building Comn., Trinity Methodist Episcopal Church, 1 story, 60 x 120 ft., stone church, concrete found., to Wark & Co., 1608 Walnut St., Phila., Pa., $285,000. Noted Mar. 31.

N. Y., Clinton—Bd. Educ., general contract Clinton Junior-Senior High School, to Loman Constr. Co., 608 William St., Elmira, $243,673; plumbing, to Hudson Falls Hardware Co., Hudson Falls, $14,059; heating and ventilating, to H. J. Brandeles Corp., 1602 Lincoln Ave., Utica, $34,980. Grand total $292,712. Noted Apr. 11.

N. Y., Garden City—Nassau Co., Court House, Mineola, general contract Meadowbrook Hospital, near here, to C. T. Wills, 286 5th Ave., New York; heating, to Jarcho Bros., 215 East 37th St.; plumbing, to Metcalf Bros., 19 Morris Ave., Rockville Center. Est. $1,750,000. G. L. Hubbel, 65 Hilton Ave., in charge. General contractor soon lets separate contracts. Noted Apr. 21 under "Mineola."

N. Y., Geneseo—State Bd. Educ., Education Bldg., Albany, general contract 3 story, basement, 93 x 143 ft. dormitory, at Geneseo State Normal School, to J. Routier, Rochester.

N. Y., Long Beach—Affiliated Constructors, 3 story, 100 x 200 ft. apartment, Park Pl., Hudson and Market Sts., to Godfrey M. Weinstein, 1400 Bway., New York. Est. $275,000.

N. Y., Sparkill—H. G. Emery, archt., 275 Piermont Ave., Nyack, general contract 1 story, basement, brick, steel school addition, to C. and W. Constr. Co., 400 East Fordham Rd., New York, for Bd. Educ., C. N. Cornell, pres., Dist. 3 Union Free School of Orangetown, N. Y., High School, Piermont. Noted Apr. 7.

Pa., Phila.—Franklin Memorial Institute, J. T. Windrim, archt., Commonwealth Bldg., construction memorial building, to United Engineers (Day and Zimmerman), 112 North Broad St.; foundation work, to Carter Paving Co., 50th St. and Lancaster Ave.; structural steel, to American Bridge Co., Widener Bldg. Total est. $4,000,000.

Pa., Torrance—Torrance State Hospital, c/o C. R. McKinnis, supt., general contract 1 story, basement, 92 x 218 ft. dining room and kitchen, and 1 story, 23 x 70 ft. reception building, brick, tile, steel, limestone, to R. B. McDanel Co., 400 7th Ave., New Brighton, heating, to W. M. Clark Co., 295 South Beaver St., New Castle, electrical work, to Devlin Electric Co., Stanwix St., Pittsburgh; plumbing, to M. J. O'Shell Co., Coalport. Est. $170,000. Noted Mar. 25.

Wis., Milwaukee—Bd. School Directors, to Johnson Service Co., 507 East Michigan St., heat regulators for Rufus King High School $14,894; to Kiekhefer Elevator Co., 1100 West St. Paul Ave., elevator for same $4,078; to S. Czaplewski & Sons, Inc., 2136 South 7th St., general contract North Pierce Street School $5,980, concrete, cement South Side Stadium $3,219, grading, concrete work Garden Homes School $4,888; to Stoehr & London, 1705 West Clybourne St., heating for 27th Street School $6,465; to Acme Iron & Steel Co., 5329 West State St., fencing Garden Homes School $2,974; to Downey Heating Co., 1739 West St. Paul Ave., plumbing and sewerage work in same school $664, in South Side Stadium $874; to A. C. Guetzkow, Inc., 5420 West State St., excavating, grading, concrete for State Street School $6,839; to S. V. Hanley, 1653 West Farwell Ave., plumbing for same $338; to McClymount Marble Co., 123 North 27th St., marble for North Pierce Street School, $2,436; to Butler & Sons, 724 North Milwaukee St., tile work for same $600; to O. A. Waskow, 2222 West State St., plumbing for same, $3,987. Grand total $58,236. Noted Mar. 24.

Alta., Edmonton—Wise Estate, c/o G. T. Bragg, representative, 10053 Jasper Ave., rebuilding 4 story hotel, to replace Corona Hotel, 10635 Jasper Ave., to Poole Constr. Co., 733 Tegler Bldg., $250,000. Noted May 12.

Ont., Galt—G. Hogarth, deputy minister Dpt. P. Wks., Parliament Bldg., Toronto, Girl's Training School, main school building, to G. H. Thomas & Son Ltd., 45 Dickson St.; dormitory buildings, to Schultz Constr. Co., 45 Albion St., Brantford; steam tunnel and sidewalks, to Bergmann Constr. Co., 128 King St. N., Waterloo; administration building, to Paunder Bros., 45 Cambria St., Stratford; all foregoing of brick, concrete construction and mostly 2 story, basement. Est. $250,000. Noted Mar. 3.

Ont., Kingston—W. W. McNeil, vice-principal Queens University, altering, repairing, fireproofing 2 story, basement, concrete, brick, marble, present stone arts building, general contract to G. C. Wright, 81 Brock St., plumbing and heating, to Graves Bros., 71 Princess St.; electrical work, to J. Harris, 4 Copper St.; structural steel, to Disher Steel Constr. Co., 80 Commissioners St., Toronto. Est. $175,000. Noted Apr. 7.

Industrial Buildings

PROPOSED WORK

Calif., Pasadena — WAREHOUSE — Pasadena City Light Dpt., City Hall, plans by Marston & Maybury, 25 South Euclid Ave. (Unit 2) 63 x 221 ft. warehouse, Unit 3, 33 x 87 ft. carpenter shop, Unit 4, 33 x 89 ft. transformer, all rein.-con., construction, steel roof trusses and floor joists, composition roofing, steel sash, brick, veneer work, plaster facing, concrete floors, tile baths, wire glass, steel roller doors, Kalamein doors, 2 hydraulic lifts, Glen St. $125,000. Will probably be built by segregated contracts under supervision of owner. Noted Dec. 17, 1931.

Calif., Vernon—PACKING PLANT—Swift & Co., 3750 Jewett St., Vernon, Calif., and Stockyards, Chicago, Ill., 3 story addition. $100,000.

Md., Baltimore—WAREHOUSE—Carriage & Toy Co., Pratt St., reconstructing warehouse, destroyed by fire. $60,000. Indefinite whether owner or insurance company will build.

Mass., Amherst—SERVICE—Amherst College, Treasurer's Office, soon lets contract brick service building. To exceed $40,000. McKim, Mead & White, 101 Park Ave., New York, archts.

Mo., St. Charles—LIGHT and POWER PLANT—Russel & Axon, consult. engrs., Roosevelt Bldg., St. Louis, reported to City Council, that municipal light and power plant for that community could be built with the proceeds of $300,000 bond issue. Report stated that steam generating plant can be built for $200,130, or diesel engine plant $167,839; distribution system $91,350. Noted Dec. 10.

N. J., North Bergen—SHOP—J. Bock, c/o McDermott & Binda, archts., 582 Bergenline Ave., Union City, sketches completed 1 story, basement, brick, steel. $40,000. **Maturity soon.** Owner seeking building permit. Noted Apr. 14.

N. J., Whitehouse Station—CREAMERY—G. N. Clark, Lebanon, reconstructing creamery, $40,000. Architect not appointed.

N. Y., Brooklyn—STORAGE and SERVICE GARAGE—Belfan Building Corp., 26 Court St., 1 story, 50 x 100 ft. brick, concrete, Jefferson St. and Wyckoff Ave. Private plans.

N. Y., Brooklyn—STORAGE—R. DiSpirito, 208 Stone Ave., plans by T. R. Earne, 118 East 28th St., New York, altering and extending 1 story, Atlantic Ave. near Eastern Parkway. $40,000.

N. Y., Brooklyn—STORAGE—M. H. Renken Dairy Co., Myrtle and Classon Aves., plans by Kock & Wagner, 32 Court St., 3 story, 45 x 61 ft. storage, vicinity of Classon and Myrtle Aves. To exceed $50,000.

N. Y., Brooklyn — SERVICE GARAGE and STORE—Casper Realty Corp., E. Iba, pres., 6117 4th Ave., plans by D. L. Lang, 1860 Bway., 1 story, 90 x 100 ft., brick, concrete, 4th Ave. and 62nd St. To exceed $40,000.

N. Y., Brooklyn—FACTORY—One Hundred Twenty-Four Ellery Street Corp., c/o J. Gilmartin, 155 East 42nd St., New York, plans by W. J. Rothman, 195 East 4th St., New York, altering 6 story factory, Ellery St. and Tompkins Ave.

N. Y., Brooklyn — MILK PLANT — W. M. Evans Dairy Co., 246 Gates Ave., plans by L. Lauritzen, 356 Fulton St., 3 story, basement extension, Elders Lane and Fulton St. $30,000.

N. Y., High Falls—POWER PLANT—Dpt. Water Supply, Gas & Electricity, Municipal Bldg., New York, plans electric power plant, as part Rondout Creek Reservoir project, Rondout Creek. Court of Appeals dismissed objections of private companies upholding approval of State Water Power and Control Comn. Noted Dec. 3, under "Waterworks."

N. Y., Millwood—SERVICE—Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, service building. $40,000.

N. Y., New York — ELEVATOR STORE HOUSE — Dpt. Hospitals, Municipal Bldg., plans by C. B. Meyers, 31 Union Sq., altering elevator storehouse, incl. steel supports and walls to support 8,000 gal. tank, also 12,000 gal. tank to be purchased, at Welfare Island. To exceed $40,000.

N. Y., New York—STORAGE—Eighth Avenue and 125th Street Corp., S. Deracktor, pres., 12 East 41st St., plans by Sugarman & Berger, 345 Madison Ave., 1 or more story, 107 x 150 ft. storage, 2317 8th Ave. $125,000.

N. Y., New York — CARPET CLEANING PLANT — International Carpet Cleaning Co., 2418 Belmont Ave., or c/o S. Levy, 3810 3rd Ave., plans altering and equipping building for carpet cleaning plant, 2418 Belmont Ave. To exceed $40,000.

N. Y., New York—STORAGE, SHOWROOMS, etc.—Jodur Corp., J. Durst, pres., 358 5th Ave., awards contract about June without competition, altering storage, showrooms, 358 5th Ave. $80,000 or $90,000. H. M. Clawson, 40 East 49th St., archt. Noted May 12.

N. Y., New York—FACTORY—Seaman's Bank for Savings, R. H. Stever, pres., 74 Wall St., plans by K. Franzheim, 22 East 40th St., altering 6 story manufacturing plant, 129 West 41st St. $40,000.

N. Y., New York — POWER PLANT — Springler Electric Co., c/o Smith, Chambers & Clare, 60 Bway., New York, steam power plant and distribution system to serve area between 13th and 15th Sts., University Pl. and Union Sq. to west side 5th Ave. $600,000. Company organized by interested property owners. Hearing on application for franchise May 25. Noted May 12.

O., Oxford — WAREHOUSE — Bd. Trustees Miami University, plans by Garber & Woodward, 616 Walnut St., Cincinnati, 2 story, basement, 64 x 152 ft., brick, rein.-con. food storage and preparation building, plain found. $150,000. Fosdick & Hilmer, Union Trust Bldg., Cincinnati, engrs.

Va., Culpeper — POWER PLANT — Virgi Pub. Serv. Co. rebuilding power plant dama by fire. To exceed $50,000.

Tex., Corpus Christi—CHEMICAL PLANT Southern Alkali Corp., c/o H. A. Gault, pre Barberton, O., plans completed, site operatio construction, etc., have not yet begun. Autho zation to carry out original plans expected t fall or thereafter. Noted Nov. 26.

Alta., Irma—WAREHOUSE and STORAG TANKS—British American Oil Co. Ltd., wa house and storage tanks. $150,000.

N. S., Yarmouth—PLANT—Meteghan Shi building Co. Ltd., shipbuilding plant. $50,00

Ont., Prescott—PLANT—Newell Mfg. Co Ltd., King St., soon lets contract altering and constructing plant addition. $40,000.

BIDS ASKED

N. J., Jersey City—ICE PLANT—See "Contracts Awarded."

N. Y., Long Island City — GARAGE — See "Contracts Awarded."

N. Y., Long Island City—SERVICE STATION—See "Contracts Awarded."

N. Y., New York — SERVICE GARAGE — Marks Bros. Holding Corp., M. Marks, pres., 470 East 133rd St., taking bids (selected list bidders), general contract 2 story, 133 x 190 ft. St. Ann's Ave. from Boulevard to 132nd St. $100,000. J. J. Gloster, 303 West 42nd St., New York, archt. Will award contract about June 1. Noted Apr. 28.

Okla., Ada—ICE PLANT—See "Contracts Awarded."

R. I., Cranston — SERVICE STATION and SHOW ROOM—See "Contracts Awarded."

CONTRACTS AWARDED

Conn., Mystic — ICE MANUFACTURING PLANT—Mystic Ice Co., F. Bergman, mgr., Noank Rd., Noank, 1 story, 60 x 90 ft., brick plant, to N. & S. Building Co., Main St., Norwich. $40,000. Noted Apr. 7.

Mass., Roxbury—SERVICE STATION—Tidewater Oil Co., 17 Battery Pl., New York, 1 story, brick, concrete, plain found., to Thibeau & Comeau, 4 Brattle St., Cambridge. Est. $40,000.

Mass., Worcester—SHOP—City, Sewer Dpt., J. H. Brooks, Jr., 3 story, 55 x 175 ft., brick, plain found., to A. J. Glendron, 136 Dewey St. Est. $40,000 or more.

N. J., Jersey City—CHEMICAL PLANT—Richards Chemical Wks., 190 Warren St., general contract, altering and constructing 1 story, 100 x 200 ft. and 25 x 100 ft. brick, steel top addition, 192-8 Warren St., to James Billington, Inc., 198 Fairmount Ave. Est. $40,000.

N. J., Jersey City — ICE PLANT—Fruit Growers Express Co., lessee, Mansey Bldg., Wash., D. C., altering 1 story ice plant, incl. ice elevator, plumbing, masonry and carpentry, Harsimus Cove Yard, separate contracts. $40,000. Pennsylvania R.R. Co., T. J. Skillman, Broad Street Sta., Phila., Pa., owner.

N. Y., Long Island City—GARAGE—H. H. Anthony, Inc., 31-59 12th St., Long Island City, service building, garage, Vernon Blvd. and 31st Dr., separate contracts. **Maturity soon.** V. Schiller, 30-64 41st St., Astoria, archt. Noted May 12.

N. Y., Long Island City—SERVICE STATION—Springfield Petroleum Co., 1772 Southern Blvd., New York, 1 story, 20 x 97 ft. service station and repair shop, Merrick Rd. and Farmers Blvd., separate contracts.

N. Y., Long Island City—PLANT ADDITION, etc.—Union Bag & Paper Co., Woolworth Bldg., New York, 1 story, 25 x 100 ft. plant addition and metal storage building, 51st Ave. and 23rd St., to Erisco Realty & Constr. Co., 51st Ave. and 23rd St. Est. $40,000, incl. equipment.

N. Y., New York — FACTORY — Hartman Realty Corp., 19 East 9th St., 2 story, 52 x 82 ft. factory, 225 West 28th St., to R. Lemkin & Son, 235 East 76th St. Est. $40,000.

N. Y., New York—GARAGE—K. Lavazoli, 308 West 68th St., 2 and 3 story garage, 263 West 69th St., to A. C. Biccarone, 545 5th Ave.

Okla., Ada—ICE PLANT—J. A. McCurley, El Reno, 1½ story, basement, 44 x 60 ft., 20 ton daily capacity, brick, concrete, incl. loading dock, Main St., day labor.

Pa., Johnstown—WAREHOUSE—M. Glosser & Son, 630 Elder St., D. Glosser, in charge, 1 story, 40 x 135 ft., brick, steel, steel sash, Messenger St., to Carstsensen & McLain, Swank Bldg.

R. I., Cranston — SERVICE STATION and SHOWROOM—Service Battery Shop, 263 Bway., 1 story, brick, steel, concrete, plain found., separate contracts. $40,000. F. Chiaverini, 32 Bway., Providence, archt. Noted Mar. 31.

Tex., Pampa — WAREHOUSE — Texas Elf Carbon Co., Pampa, 60 x 80 ft. warehouse, cooling house, 60 x 312 ft. storage building, steel frames, iron clad construction, incl. derricks, coolers, etc., to Cabot Shops, Inc., Pampa. $65,000.

Wis., Appleton—PLANT—Tschank & Christensen, 417 West College Ave., general contract 2 story, basement, 25 x 120 ft., rein.-con., brick, to J. Krause, 513 East Circle St. Noted Mar. 17.

See proposal advertising on page 64

CONSTRUCTION NEWS

SECTION OF ENGINEERING NEWS-RECORD—MAY 26, 1932

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WATERWORKS

PROPOSED WORK

Ia., Roland—Preliminary studies iron removal plant for water works system, Currie Eng. Co., Webster City, engrs.

N. J., Lawrenceville — Lawrenceville Water Co., drilling new well for additional supply. 100,000 gal. daily.

N. D., Jamestown — Commission has been named to investigate possibility water filtration plant. W. G. Joos, city aud. Noted Nov. 19.

O., Columbus—Comrs. Franklin Co., F. D. Conally, clk., completed plans water lines Sewer District Marion 3, Project 160, incl. 27,420 ft. 6- to 16-in. c.i. pipe, five 12 in., four 10 in., nineteen 8 in., sixty-seven 7 in. valves, 95 gate valves and 46 hydrants. $78,104. E. G. Bradbury, Courthouse Annex, engr.

O., Orrville—Bd. P. Affairs, A. D. Webster, supt., soon takes bids sinking deep well, incl. pipe and other necessary equipment. $10,000. Noted Jan. 14.

Wash., Clarkston—Washington Water Power Co., Spokane, irrigation and domestic water system. $150,000. State Div. Hydraulics issued permit.

Alta., Edmonton — North Western Utilities Co. Ltd., J. Garrett, mgr., duplicating pipe lines and extending services. $200,000.

Ont., Toronto—North York Twp., 2 mi. 6 or 8 in. c.i. mains to pipe water from well to reservoir, in connection with new deep well north of Oriole. $32,000. G. Baker, Twp. Offices, Willowdale, engr.

BIDS ASKED

Mass., Leominster—See "Contracts Awarded."

N. Y., Ithaca—June 7, by Commissioner Education, Education Bldg., waterlines and sewers at Home Economics Building, State College of Agriculture, Cornell University; adv. E. N.-R. May 26.

N. Y., Hudson—June 14, by Superintendent Standards & Purchase, State Capitol, Albany, waterlines and sewers at New York State Training School for Girls.

N. Y., Kingston—May 26, by Adjutant General at State Capitol, Albany, waterlines and sewers at State Armory.

N. Y., Middletown—June 8, by Commissioner Mental Hygiene, State Office, Albany, waterlines and sewers at Middletown State Hospital.

N. Y., Raybrook—June 7, by Commissioner Health, State Office Bldg., Albany, waterlines and sewers at New York State Hospital.

O., Columbus—June 1, by F. L. Donnally, clk. Franklin Co. Comn., 2,460 ft. 8 in. and 6,754 ft. 6 in. water lines, four 8 in. and twenty-five 6 in. valves, 29 gate boxes and 14 hydrants, in Sewer Dist. Mifflin No. 2, Contr. 159. $12,000. Former bids rejected. E. T. Bradbury, Court House Annex, engr. Noted Apr. 28.

Pa., Bedford—City Council bids about June 1, 38 m.g. reservoir, 850 ft. earth dam, 45 ft. high, incl. 100,000 cu.yd. earth fill and 300 cu.yd. concrete. $100,000. C. C. Lee, Bedford, engr. Noted Apr. 7.

Utah, Ephriam—See "Contracts Awarded."

CONTRACTS AWARDED

Ga., Manchester—City, c/o R. H. Davis, chn. City Comn., filtration plant, to Albert Cato, Manchester, $13,295. Est. $15,000.

Ind., Ft. Wayne—For 24 and 30 in. watermains, to John Dehner, Inc., 401 South Clinton St. Est. $15,000. Noted May 5.

Mass., Leominster — City, extending watermains, day labor. $30,000.

Mo., St. Louis—Bd. P. Serv., City Hall, four 150 x 150 ft. pre-sedimentation and one 330 x 406 ft. sedimentation basin at Howard Bend Water Works, on Missouri River, to J. J. Gilmore, 332 Pierce Bldg., $266,022. Noted Apr. 14.

N. J., Paterson—Passaiç Valley Water Comn., 156 Ellison St., 13,000 ft. 36 in. concrete water line under various streets in Paterson and Clifton, Contr. 19, to Lock Joint Pipe Co., Ampere, $119,950. Noted Apr. 18.

N. Y., Afton—Delaware & Hudson R.R. Co., J. McMartin, ch. engr., Albany, watermains at Maple Street Crossing, to Village of Afton which will purchase material and do work by day labor. Pub. Serv. Comn. directed award of contract. Noted May 5, under "Grade Crossings."

N. Y., Ogdensburg—City Work Bureau, replacing 3.5 mi. concrete watermains. $65,000. Owner builds.

N. Y., Walkill—Comrs. Correction, State Office, Albany, water supply at Medium Security Prison, to Curtis & Harper, 490 Bway., Newburgh, $35,121. Noted May 5.

N. Y., Whitehall—Delaware & Hudson R.R. Co., J. MacMartin, ch. engr., Albany, furnishing, placing 36 in. c.i. pipe, to Hecker Moon Co., 8701 Union St., Cleveland, O. Noted Nov. 26, under "Grade Crossings."

Pa., Letitz—Boro, E. E. Habecker, clk., Council Chamber, waterworks, incl. steel standpipe on concrete founds., 20 x 30 ft. booster pumping station, 10 in. c.i. pipe line electrical metering and control equipment, to M. and B. J. McHugh, 892 North Market St., Phila.

Pa., Torrance—State Hospital, test borings for 900 x 450 ft. earth, concrete lined dam, 50 m.g. impounding reservoir for state hospital, to Hoffman Bros. Drilling Co., Punxsutawney. Bids June 1 on dam proper. Total est. $550,000. Noted May 26.

Wash., Bremerton—City, water system for new water district addition, to A. Del Guzzo, Seattle, $15,500. Est. $25,000. Noted May 5.

Ont., North Bay—Ferris West Twp., 16,000 ft. 4 in. c.i. main, to S. Zimblt, 44 Front St. Est. $15,000. Township will purchase all materials.

SEWERS

PROPOSED WORK

Kan., Herington—Preliminary plans sewage disposal plant. $50,000 or more.

Mich., Jackson — City, W. R. Cruse, mgr., preparing plans and estimates activated sludge or trickling filter type sewage disposal plant. Fargo Eng. Co., Jackson, engr. Noted Apr. 21.

N. J., Asbury Park—City Comn., installing chlorine administration equipment in pump room, sewage disposal plant. $8,000. Remington, Vosbury & Goff, 509 Cooper St., Camden, engrs.

N. C., Valdese—Town, sewerage system. $75,000 bonds issued for same.

Pa., Polk—State School, plans nearing completion and takes bids about June 1, sewage disposal plant, 1 Imhoff tank, at Polk State School. $15,000. J. N. Chester Engineers, Clark Bldg., Pittsburgh, engrs.

Tex., Tyler—City, c/o L. H. Powell, mgr., sewage disposal plant. $100,000 bonds voted for same. H. L. Thackwell, Jacksonville, engr.

Ont., Hamilton—City, 12 in. and up vitr. tile sewers in Bowman St., $10,176; Broadway Ave., $3,992; Gage Ave., $22,890. W. L. McFaull, City Hall, engr.

Que., Montreal — Soon takes bids sewer in Ranger St. $29,000.

BIDS ASKED

Calif., Long Beach—Aug. 5, by City Council, North Long Beach Sewer Dist. 11, incl. 250,000 ft. 8 in. and 17,590 ft. 12 in. vitr. clay sewers, 95,600 ft. 6 in. vitr. connection sewers, 600 g.p.m. pumping station, incl. two 6 in. and one 8 in. pump. Former contract rescinded. $800,000. A. G. Adams, City Hall, engr. Noted Dec. 3 under "Contracts Awarded."

Pa., North Bessemer—June 2, by J. W. Wasson, secy. boro, P. O. Box 277, 2 mi. 8 in. terra cotta sewer, appuretnances, connections Shades Run Sewer Dist., for Pennsylvania Twp. $25,000. A. Hutchison, 608 South Ave., Wilkinsburg, engr.

Mass., Leominster—See "Contracts Awarded."

N. Y., Brooklyn—June 1, by H. Hesterberg, pres. Brooklyn Boro, Boro Hall, sewers in Gravesend Neck Rd., Elmore Pl., Avenues V and W, Homecrest and Remsen Aves., East 87th, East 13th, East 14th, 67th, East 58th and East 95th Sts.

Pa., Chester—City, Dpt. Street and P. Impvts., G. J. Hunter, dir., City Hall, bids about July, storm sewer in Front St., from Flower to Clayton Sts., $90,000. R. C. Wheeler, 505 Market St., Chester, and 36 State St., Albany, N. Y., engrs.

Pa., Darby—June 6, by Boro, Boro Hall, storm sewer. Damon & Foster, Chester Pike and High St., Sharon, engrs.

Pa., Sharon—May 31, by F. S. Williams, City Hall, 1,600 ft. 6- to 24-in. terra cotta sewer pipe; 100 lin.ft. double strength terra cotta pipe; 210 ft., 10- to 30-in. corrugated pipe; 60 tons crushed slag and 60 tons sand for concrete work; 50 bbl. standard portland cement; 1,000 lb. Oakum; 10 tons asphaltic brick filler, etc., for city. Work will be done by local welfare.

Tex., Highland Park—May 31, by City, c/o P. V. Montgomery, mayor, sanitary sewer improvements. City Engineer, Highland Park, engr.

CONTRACTS AWARDED

Calif., Los Angeles—City, Sect. 34-F, North Outfall Sewer from Corbin Ave. to Topanga Canyon Blvd. on Van Owen St., incl. 5,128.62 ft. 1900 D loading pipe, 5,601.56 ft. 2000 D loading pipe and 3,466 ft. 2100 D loading pipe, all 15 in. pipe, manholes, etc., using centrifugally c.i. pipe, to Grancich & Grancich, 3356 Ramona Blvd., $38,871.

Mass., Leominster—City, P. Wks. Dpt., sewerage works extensions, day labor. $60,000.

N. Y., Long Island City—G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., to Pan Constr. Co., 244 Jackson Ave., sewers in 21st St. $2,025, 100th St. $6,184, 104th St. $1,112; to L.E.G.A. Constr. Corp., 71 Skillman St., Brooklyn, 21st Ave., $605; to Matarazzo & Yondola, 1163 61st St., Brooklyn, 71st Dr. $5,722; to DiSalvo Contg. Co., 2441 Butler St., Brooklyn, 219th St. $2,521, Parson Blvd. $2,251; to A. Capasso, 865 Liberty St., Richmond Hill, 107th Ave. $4,266; to Francese & Catapano, 289 Logan St., Brooklyn, 121st Ave. $2,290, 216th St. $1,610; to A. Clemente, 6854 Orraville St., Brooklyn, 174th St. $10,083, Culloden Pl. $1,425; to P. Ambrosio, 674 Glenmore Ave., Brooklyn, Hollis Ave., $2,467. Grand total $42,561. Noted Apr. 7.

N. Y., Long Island City—G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., to Palmo Constr. Co., Pitkin Ave., Ozone Park, sewer in 69th St. $1,020, 233rd St. $288; to E. Meluccio, 1209 61st St., Brooklyn, 73rd St. $1,044; to F. Guerriero, 1024 66th St., Brooklyn, 74th St. $2,470; to Di Salvo Contg. Co., 2441 Butler St., Brooklyn, 78th St. $2,767, 98th St. $2,719, 105th Ave. $2,263; to J. Gallo, Inc., 169-10 State St., Flushing, in Stanhope Ave. $1,558; to C. Soverio, 157 Ashford St., Brooklyn, 114th Dr. $572, 116th Ave. $3,645, 195th St. $4,089; to L.E.G.A. Constr. Co., 71 Skillman St., Brooklyn, 122nd Ave. $2,221, Hobard Lane $1,005; to Belfatto Constr. Co., Foch Blvd., South Ozone Park, New York Blvd., $4,075; to A. Capasso, in Cross Island Blvd. $1,552. Grand total $31,288. Noted Apr. 18.

Pa., Pittsburgh—See "Streets and Roads."

Pa., Sharon—See "Bids Asked."

WASTE DISPOSAL

PROPOSED WORK

Wis., Chilton—City, O. Hoist, clk., garbage disposal plant, brick, rein.-con. Engineer not appointed.

BRIDGES

PROPOSED WORK

Del., Newark—New Castle Co., Levy Court, constructing University Memorial Bridge to have 30 ft. roadway, 6 ft. sidewalks on each side, triple span with continuous steel girders, set in concrete piers and abutments over White Clay Creek at Chapel St. A. P. Shaw, Wilmington, co. engr.

Okla., Oklahoma City — City Council, M. Peshek, city clk., preliminary plans made new bridge over Lightning Creek on Southeast 17th St., also levee from Central to Robinson Sts. $27,000. L. M. Bush, City Hall, engr.

O., Cleveland—Bd. Comrs. Cuyahoga Co., preparing plans west approach, concrete deck, retaining walls, bridge Main Ave. $750,000. Wilbur Watson & Associates, 4614 Prospect Ave., engrs. Noted May 12.

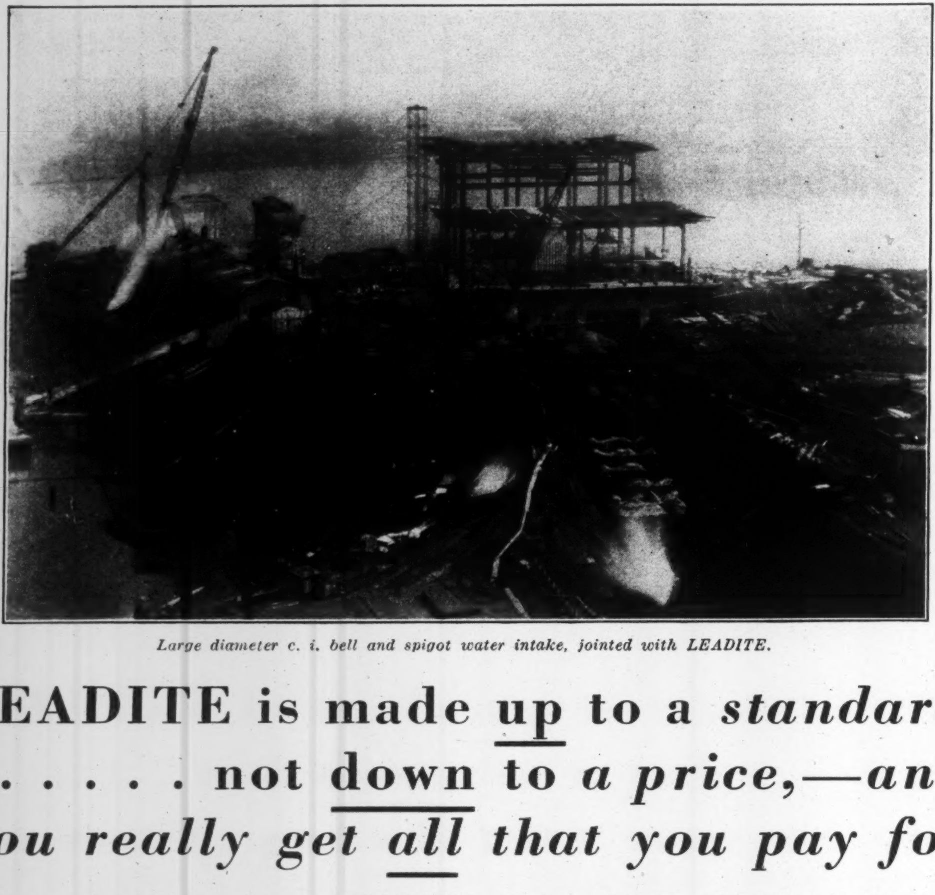
Texas—State Hy. Comn., W. R. Ely, chn., Austin, preparing plans rein.-con. bridges over Papalota and Media Creeks, Hy. 16, Bee Co. $40,000. G. G. Wickline, Austin, bridge engr.

Texas—State Hy. Comn., W. R. Ely, chn., Austin, preparing plans rein.-con., steel bridge over Sabinal River, Hy. 3, Federal Aid Project 289, Uvalde Co. $80,000. G. G. Wickline, Austin, bridge engr.

See proposal advertising on page 48

LEADITE

Trade Mark Registered U.S. Pat. Office



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PHILADELPHIA, PA.

No Caulking

Bridges (Continued)

Texas—State Hy. Comn., W. R. Ely, chn., Austin, soon takes bids steel, concrete bridge over San Saba River, Hy. 9, Federal Aid Project 223, re-opened, McCullogh Co., $75,000; plans in progress 2 steel, concrete bridges, 1 over Salado Creek and other over Cibilo Creek, Federal Aid Project 633-A, Bexar and Guadalupe Counties, $60,000. G. G. Wickline, Austin, bridge engr.

Texas — State Hy. Comn., W. R. Ely, chn., Austin, concrete, steel, timber pile trestle bridge over Trinity River, Hy. 4, Ellis and Kaufman Counties. G. G. Wickline, Austin, bridge engr.

Ont., Pembroke—Town, bids about June, 70 ft. steel span bridge, concrete abutments on wood pile foundations over Muskrat River, River Rd. $25,000. W. J. Moore, Court House, engr.

BIDS ASKED

Calif., Los Angeles—May 31, by Bd. Supervs. Los Angeles Co., on revised plans bridge over Rio Hondo at Firestone Blvd. New plans exclude cast-in-place concrete piles. To exceed $25,000. W. D. Armstrong, 1200 Hall of Records Bldg., engr. Noted May 5.

Kansas—See "Streets and Roads."

N. J., Newark—June 13, by State Hy. Comn., Trenton, viaduct to carry Route 29, Sect. 10-C, across Waverly Yards of Pennsylvania R.R., Essex Co. A. L. Grover, ch. clk.; adv. E. N.-R. May 26.

Ohio—June 3, by O. W. Merrell, dir. hys., Columbus, 20 ft. span, concrete beam bridge over Brush Creek, Sect. "G" Piqua-Sidney Rd., Shelby Co., $13,012—45 ft. span concrete beam bridge, Sect. "U" Dayton-Chillicothe Rd., Ross Co., $10,780—two 40 ft. span, concrete beam bridge, Sect. "F-2" Findlay-Bowling Green Rd., Wood Co., $26,948.

Oklahoma—May 31, by State Hy. Dpt., Oklahoma City, 9 span 148 ft. rein.-con. bridge at Surprise, Beaver Co., $25;000—8 span 136 ft. rein.-con. bridge at Elgin, $25,000—10 span 144 ft. rein.con. bridge at Sterling, $25,000, both Comanche Co.—2 span 160 ft. steel truss bridge on concrete piers at Stroud, Lincoln Co., $25,000—8 span 125 ft. rein.-con. bridge at Stroud, Lincoln Co. $25,000. C. L. Wilson, hy. engr.

CONTRACTS AWARDED

Connecticut—Lee Constr. Co., contractors, 133 Southampton St., Boston, Mass., awarded contract 350 tons structural steel for grade crossing elimination, Main St., Thomaston, for State Hy. Dpt., Hartford, to Lackawanna Steel Constr. Co., Walden Ave., Buffalo, N. Y.; 100 tons reinforcing steel, to Truscon Steel Co., 1315 Albert St., Youngstown, O. Noted May 12, under "Contracts Awarded."

Maryland—State Roads Comn., Baltimore, G. C. Uhl, chn., substructure for proposed bridge over Monocacy River, Contr. F-175-57, Frederick Co., to Poffinberger & Mause, Myersville, $25,858. Noted Dec. 10.

N. J., Belvidere—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., substructure rein.-con., steel bridge, to Bates & Rogers Constr. Co., East Ohio Gas Bldg., Cleveland, O.; structural steel, to Ingalls Iron Wks., Verona, Pa. Est. $300,000.

Ohio—O. W. Merrell, dir. hys., Columbus, 23 x 15 x 125 ft., rein.-con. box culvert, Sect. "A" Ohio River Rd., Adams Co., to W. F. Seymour, 648 4th St., Portsmouth, $10,272—two 75 ft. span, concrete beam bridge, Sect. "B" same road, to S. Monroe & Son Co., 2640 Gallia St., Portsmouth, $19,229—30 ft. span. rein.-con. bridge, Sect. "H" Logan-Athens Ra. Athens and Hocking Counties, to Dodge Hussey Inc., 1174 West 5th Ave., Columbus, $7,762—two 23 ft. span, and two 25 ft. span concrete slab bridges, Sects. "P" and "Q" Roundhead-Mt. Cory Rd., Hancock Co., to Arthur Langenderfer, Inc., 851 Spitzer Bldg., Toledo, $16,102—36 ft. span, concrete beam bridge, Sect. "I" Greenville-Fort Recovery Rd., Darke Co., to Durite Constr. Co., Osgood, $6,224—raising existing 50 ft. concrete girder span superstructure, 23 ft. roadway and 2 new bridges, one 20 ft. span and other 43.4 ft. span, Sect. "S" McConnelsville-Marietta Rd., Morgan Co., to R. Strawser, 852 North Cassady Rd., Columbus, $9,158—two 75 ft. span, concrete beam bridge, steel beams, Sect. "K" Route 37, Washington Co., to L. T. Cisler & Son, Marietta, $25,489. Grand total $94,236. Noted Apr. 7.

Oklahoma—State Hy. Dpt., Oklahoma City, 12 span 310 ft. rein.-con. bridge, Custer Co., to J. W. Hopper, Oil Exchange Bldg., Oklahoma City, $34,180. Est. $40,000.

Pa., Pittsburgh—See "Streets and Roads."

Washington—S. J. Humes, dir. state hys., Olympia, bridge over Stillaguamish River, Snohomish Co., to D. Nygren, 309 Lloyd Bldg., Seattle, $178,144. Noted Apr. 21.

STREETS AND ROADS

PROPOSED WORK

Kentucky—State Hy. Comn., Frankfort, recently adopted a road improvement budget for 1932 and 1933, providing for $32,000,000 in construction, maintenance, equipment and administration.

BIDS ASKED

Calif., Los Angeles—June 1, by Bd. P. Wks., City Hall, grading, curbing, guttering, sidewalks, storm drains, ornamental lighting conduit, catch basins, 8 in. concrete paving 116,728 sq.yd., 6 in. concrete surfacing 108,500 sq.ft., 6 in. asphaltic concrete surfacing 23,457 sq.ft. Figueroa St. from Manchester Ave. to 115th St. To exceed $25,000.

Calif., San Francisco—June 8, by S. J. Hester, secy. Dpt. P. Wks., grading, curbing, sidewalks, asphaltic concrete paving 42,500 sq.ft. Turk St., between St. Josephs and Masonic Aves. $28,700.

Illinois—June 8, by State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, 2½ in. brick surfacing 2.99 mi. road in LaSalle Co.—3.7 mi. Madison Co.—1.28 mi. Ogle Co.—0.94 mi. Whiteside Co.—1.23 mi. La. Salle and Grundy Counties—1.37 mi. Grundy Co.—2.66 mi. McLean Co.—6.22 mi. Madison and Bond Counties—8.24 mi. Bond Co.—1.14 mi. Clark Co.—4.18 mi. Tazewell Co.—1.53 mi. Fulton Co.—2.08 mi. Henry Co. F. T. Sheets, ch. hy. engr.

Ia., Knoxville—June 1, at office Auditor Marion Co., pit run shale, crushed stone, Class A or B gravel surfacing 6.5 mi. trunk roads.

Kansas—June 2, by State Hy. Comn., Court House, Oberlin, sand gravel surfacing 86.874 mi. roads in Decatur, Norton, Smith, Thomas and Phillips Counties. W. V. Buck, Topeka, hy. engr.

Louisiana—May 31, by State Hy. Comn., Baton Rouge, grading, gravel surfacing 2.4 mi. Project A-44 Loddell-Viola Levee Hy., West Baton Rouge Parish—1.3 mi. Project L-41 Pelican New Levee Hy., Route 30—0.8 mi. Project 1-42 Speranza Levee Hy., Route 30—0.7 mi. Project P-49 Good Hope New Levee Hy., Route 1, all foregoing St. Charles Parish—0.7 mi. Project RRA-13, Route 5, Ryland Levee Hy.—5 mi. Project RRA-14, Harris Ferry Levee Hy., Route 5, both Rapides Parish.

Maryland—May 31, by State Roads Comn., G. C. Uhl, chn., concrete shoulders and concrete roadway 8.98 mi. Contr. F.-189-511, Frederick Co.; concrete paving 1.88 mi. Contr. S-55-12, Somerset Co.; adv. E.N.-R. May 26.

Mo., Clayton—June 1, by St. Louis Co., concrete paving 4.25 mi. Clayton Rd., Lindbergh Blvd. to Mason Rd., 20 ft. $135,750. R. Jablonsky, Court House, co. engr.

Neb., Franklin—June 7, by R. S. Douglas, clk. Franklin Co., Court House, sand graveling 7 mi. Project 5, on Campbell Riverton County Rd.; 1 mi. graveling Project 6 through Macon and 2 mi. at intersection between Sects. 5 and 6, Twp. 4, Range 16.

New Jersey—June 13, by State Hy. Comn., Trenton, grading, rein.-con. paving 122,421 sq.yd., Route 42, Sects. 8, 1A and 2A, Woods Corner to Williamstown, Gloucester Co. A. L. Grover, ch. clk.; adv. E. N.-R. May 26.

New York—June 14, by A. W. Brandt, comr. Hys., Albany, constructing hys. and bridges in Fulton, Lewis, Nassau, Suffolk and Queens Counties; reconstructing in Broome, Cayuga, Seneca eca and Essex Counties; adv. E. N.-R. May 26.

N. Y., Albany—City, bids in July grading, paving 2.75 mi. Loudenville Rd. from Bway. to Northern Blvd., 30 ft. J. Brennan, city engr.

N. Y., Brooklyn—June 1, by H. Hesterberg, pres. Brooklyn Boro, Boro Hall, grading, curbing, flagging Manor Court, Rockaway Parkway, Voorhies Ave., and 70th St., grading, sheet asphalt on concrete paving Bradford and St. Johns Pls., Willoughby, Christopher and Grand Aves., Ashford, Bradford, Hinsdale, Devoe, East 32nd, East 36th, East 48th, Essex, Willow, 56th and 70th Sts.—grading; granite block on concrete paving South 6th St.—grading Manor Court.

N. Y., Canandaigua — Ontario Co. Hy. Dpt. taking bids constructing 1.65 mi. Canandaigua-Academy Rd., Part 2 $55,924—2.2 mi. Barker Church-Rector Hill Hy., Naples, $48,165—1.7 mi. Boswell Corners-Brownstand Hy., South Bristol, $29,294.

North Carolina—June 7, by State Hy. Comn., Raleigh, L. R. Ames, engr., surface treating 17.3 mi. Route 90, Project 4014, Durham Co., $43,000; grading, clearing, grubbing 3.97 mi. County Project 280, Robeson Co. $21,000.

Ohio—June 3, by O. W. Merrell, dir. hys., Columbus, concrete paving 1.608 mi. hy. Allen Co., $39,071—8.859 mi. Clark Co. $203,528—1.806 mi. Erie Co. $44,972—0.557 mi. Huron Co. $18,776 — 3.832 mi. Logan Co. $58,464—2.903 mi. Shelby Co. $73,088—4.749 mi. Miami Co. $109,105—0.982 mi. Ottawa Co. $21,833—8.442 mi. Union Co. $186,652—3.065 mi. Williams Co. $142,249—3.006 mi. Wood Co.—widening, bitulithic concrete paving 2.643 mi. Ashtabula Co. $129,061—8.032 mi. Wyandot Co. $100,673—bituminous macadam paving 8.473 mi. Clinton Co. $163,494—7.014 mi. Monroe Co. $99,383—4.363 mi. Seneca Co. $70,785—2.067 mi. Fulton Co. $31,678—brick paving except brick 0.958 mi. Wayne Co. $30,257; furnishing and delivering brick for same $9,912.

O., Cincinnati — June 3, by Comrs. Hamilton Co., grading, concrete curbing, concrete paving 24,000 sq.yd. Carthage Rd. from west line of Sect. 36 to east line of Sect. 36. $78,080. E. A. Gast, Court House, engr.

O., Eaton—June 4, by Comrs. Preble Co., furnishing, applying 200,000 gal. tarvia on 20 mi. roads in 9 townships. $25,000. I. Earhart, co. surv.

Oklahoma—May 31, by State Hy. Dpt., Oklahoma City, grading, drainage structures 9.1 mi. State Hy. 34, north and east of Carter, $31,000—9 mi. State Hy. 34, south of Carter, $25,000, both Beckham Co.—13 mi. State Hy. 35 south of Beaver, Beaver Co., $30,000—0.6 mi. U. S. Hy. 66 on new subsidiary near Canute, Washita Co., $25,000—grading, drainage structures paving 5.71 mi. U. S. Hy. 66, through Wellston, Lincoln Co. $120,000, all foregoing 32 ft. wide. C. L. Wilson, hy. engr.

Tennessee—June 10, by State Dpt. Hys. & P. Wks., Nashville, paving 0.27 mi. Hy. 1 in Nashville—5.23 mi. Hy. 24 between Mt. Juliet and Martha, Wilson Co.—2.06 mi. Hy., 24, between Nashville and Wilson Co. line—8.6 mi. Hy. 34 between Johnson City and Bluff City, Washington and Sullivan Counties—grading, drainage structures 2.25 mi. Hy. 77 between Trenton and Milan, Gibson Co.—8.66 mi. Hy. 35 between Knoxville and Blount Co. line. R. H. Baker, comr.

Wash., Asotin—Comrs. Asotin Co., bids about June 10, grading, surfacing 6 mi. Clarkston-Peola Rd. $31,000. J. Swain, Asotin, co. engr. Noted Mar. 24.

Wash., Montesano—Comrs. Grays Harbor Co. soon take bids grading, 1.5 mi. Lateral Hy. 39. $30,000. J. H. Kirkwood, Montesano, co. engr.

Wash., Prosser—June 3, by Comrs. Benton Co., bituminous treating 9.8 mi. Lateral Hy. 8, near Prosser; bituminous surfacing 8.3 mi. Permanent Hy. 21. H. J. Strandwold, Prosser, co. engr.

Wash., Seattle—City Eng. Dpt. bids early in June, improving Railroad Ave., incl. paving, relocating raliroad tracks, 6,000 ft. seawall. $1,250,000. $600,000 bonds voted. Noted Mar. 24.

Wash., Spokane—June 2, by L. Lambert, comr. P. Wks., grading Longfellow and Bridge Aves.

Wisconsin—May 31, by State Hy. Comn., State Capitol, Madison, concrete paving 27,110 sq.yd. Madison-Cambridge Rd., U. S. Hys. 12 and 18, F.A.P. 268-C extension, Dane Co.—6,111 sq.yd. Shawano Avenue Grade Separation approaches, S.T. Hy. 29, S.A.P. 3406, Brown Co.—4,623 sq.yd. Appleton Subway approaches, U. S. Hy. 10, S.A.P. 3443, Outagamie Co.

Wisconsin—June 1, by State Hy. Comn., and Hy. Coms. Burnett, Polk, Rusk, and Sawyer Counties, Superior, grading, graveling 23,815 cu.yd. Grantsburg-Siren Rd., Burnett Co.—clearing, grubbing, grading 5.503 mi. Radisson-Winter Rd., Sawyer Co.—1.019 mi. Osceola Relocation—3.068 mi. South County Line-Clear Lake Rd., both Polk Co.—6.742 mi. South County Line-Ladysmith Rd., Rusk Co.

Ont., Chatham—See "Contracts Awarded."

Ont., Cobourg—See "Contracts Awarded."

Ont., Hamilton—See "Contracts Awarded."

Ont., Napanee—See "Contracts Awarded."

CONTRACTS AWARDED

California—State Hy. Comn., Sacramento, fuel oil treating 60.2 mi. road between San Diego and San Diego-Riverside County Line, San Diego Co., to Southwest Paving Co., 712 Lankershim Bldg., Los Angeles, $30,188—grading, surfacing approaches to Clear Creek Bridge, at Tower House, Shasta Co., to H. H. Boomer, Mills Bldg., San Francisco, $6,997—fuel oil surfacing, also applying seal coat on road between Viejabs and Myers Creeks, etc., San Diego and Imperial Counties, to Hazard Contg. Co., 2548 Kettner Blvd., San Diego, $10,732. Grand total, $47,917. Noted May 5.

Colorado—State Hy. Dpt., Denver, at office C. D. Vail, engr., concrete paving 0.852 mi. Bway. and North 4th St., in Sterling, Logan Co., to J. Fred Roberts & Sons, Tramway Bldg., Denver, $18,855, 53 ft. concrete bridge at Evergreen, Jefferson Co., to J. H. Miller & Co., 1646 Blake St., Denver, $9.761.

Florida—State Road Dpt., Tallahassee, B. M. Duncan, state hy. engr., scarifying, reshaping, surface treating 10.9 mi. Project 870, Rd. 143 Palm Beach Co., to Coastal Roads Co., Miami, $23,953—clearing, grubbing, grading, drainage structures 0.884 mi. Project 3-A-1, Rd. 218, Okaloosa Co., to Britton Lumber Co., Lakewood, $2,547—clearing, grubbing, grading, culverts Project 79-B, Rd. 4, Duval Co., to Atlantic & Gulf Constr. Co., Jacksonville, $17,243—clearing, grubbing, grading, limerock base surface treating 2.07 mi. Project 1002, Rd. 140, Broward Co., to Everglades Constr. Co., Miami, $29,496—laying Ocala lime rock base and surface treating, grading, grubbing 7.54 mi. Jefferson Co., to Van Gordon Constr. Co., Jacksonville, $145,326—clearing, grubbing, grading, culverts 3.798 mi. Project 85, Rd. 3, to Langston Constr. Co. and Murphy Constr. Co., Orlando, $26,205. Grand total $479,770. Noted May 5 and 12.

Ill., Urbana—Bureau County Roads, Champaign Co., Court House, 9 ft. concrete widening Sect. 64W-15d and 2 and 4 ft. concrete widening Sect. CW. 15d, to Kent & Co., Champaign, $7,412 and $5,615 respectively; 9 and 18 ft. concrete paving 6 mi. Sect. 90-15d, to F. C. Fentz, Paris, $55,194. Noted Apr. 14.

Indiana—State Hy. Comn., Indianapolis, grading, drainage structures, concrete surfacing 107,193 sq.yd. Rd. 28, Federal Aid Project 245-A, Tippecanoe and Fountain Counties, to Market Street Constr. Co., Logansport, $111,916. Est. $249,636 Noted Mar. 24.

Iowa—State Hy. Comn., Ames, to J. P. Abramson Constr. Co., 916 Hubbell Bldg., Des Moines, grading, drainage structures, surfacing 0.277 mi. road in Appanoose Co., $8,273—to Union Constr. Co., 200 New York St., Des Moines, 12.328 mi. Boone Co. $171,542; 4.127 mi. Webster Co. $51,230—to Des Moines Asphalt Paving Co., 2nd and New York Sts., Des Moines, 8,232 mi. Dubuque Co. $119,486—to G. W. Condon Co., 223 Grain Exch. Bldg., Omaha, Neb., grading, drainage structures 1.219 mi. Adair Co.

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Streets and Roads (Continued)

$5,830—to Lynch Constr. Co., Des Moines, gravel surfacing 14 mi. P-805 $6,839; 9 mi. P-804 $1,563; 14 mi. P-288 $2,075, all Crawford Co.; 0.5 mi. Fremont Co. $1,373. Grand total $368,212.

Ia., Elkador—Clayton Co., crushed rock surfacing secondary roads, to H. L. Leas, Monona, $34,353. Noted Apr. 28.

Kansas—State Hy. Comn., Court House, Parsons, to Cook & Cone, Ottawa, bituminous material surfacing 23.066 mi. roads in Anderson Co. $23,064; 4.553 mi. Coffey Co. $9,553; mineral aggregate surfacing 8.092 mi. Anderson Co. $7,117; 3.853 mi. Linn Co. $3,392; sand gravel or chat surfacing 2.5 mi. Miami Co. $3,255; crushed stone surfacing 15.75 mi. Labette Co. $8,442, flint gravel surfacing 6 mi. Coffey Co. $828; chat surfacing 30.5 mi. Franklin Co. $15,250—to Roy Tanner Paving Co., Tuloma Bldg., Tulsa, Okla., bituminous material surfacing 12.887 mi. road in Labette Co. $30,438; 4.454 mi. Montgomery Co. $11,793; 9.896 mi. Wilson Co. $21,373; 1.022 mi. Miami Co. $2,866; 21 mi. Cherokee Co. $38,179 — to Roberts Constr. Co., Orpheum Bldg., Wichita, 10.323 mi. Elk Co. $22,206; 26.465 mi. Greenwood Co., $65,983; chat surfacing 8.7 mi. Anderson Co. $3,811—to Thogmartin-Reis Constr. Co., Ft. Scott, bituminous material surfacing 0.718 mi. Bourbon Co. $1,714; 23.882 mi. Crawford Co. $50,530; crushed limestone surfacing 6.5 mi. Bourbon Co. $5,928; chat surfacing 7 mi. Cherokee Co. $728; 6.5 mi. Bourbon Co. $2,366 — to M. W. Watson, Mulvane Bldg., Topeka, mineral aggregate surfacing 0.614 mi. Allen Co. $554; 0.521 mi. Neosho Co. $507; chat surfacing 2.5 mi. Chatauqua Co. $1,155; 7.5 mi. Linn Co. $2,985; 2 mi. Miami Co. $836; 7 mi. Wilson Co. $2,716—to George Ross Constr. Co., Kansas City, Mo., mineral aggregate surfacing 10.507 mi. Woodson Co. $13,471—to Reed & Wheelock, Clay Center, chat surfacing and fine aggregate surfacing 0.515 mi. Labette Co. $13,081—to W. F. O'Brien, St. Paul, chat surfacing 20.5 mi. Neosho Co. $8,339; 4.5 mi. Allen Co. $1,692—to Dan Sherrer Constr. Co., 329 North 18th St., Kansas City, grading, drainage structures, culverts 0.772 mi. Montgomery Co. $8,915; 1.852 mi. Labette Co. $23,127; Bridges 1 and 2 Labette Co. $8,296—to A. L. Cook, Ottawa, Bridge 1 Montgomery Co. $22,187. Grand total $436,677. Noted Apr. 14 and 21.

Maine—State Hy. Comn., Augusta, **(P. means Project)** gravel surfacing 5.62 mi. hy. Edgewood and Newcastle, P. 117-E, to Lawton Constr. Co., 79 Lenox Ave., Providence, R. I., $105,152—3.96 mi. hy. Lincolnville, P. 104-C, to Naugler Bros. Co., 117 Main St. Brunswick, $65,608—7.34 mi. Damariscotta and Nobleboro, P. 117-F, to W. H. Hinman, Inc., Skowhegan, $128,422—4.58 mi. Bucksport and Orland, P. 129-B, to Littleton Constr. Co., Inc., Littleton, N. H., $66,283—bituminous macadam paving 3.24 mi. hy. Waterville and Oakland, Federal Aid Project 136-A, to A. D. Bridges & Son, Inc., Hazardville, Conn., $81,711. Grand total $447,176.

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, concrete shoulders 7.44 mi. Contr. G-76-611, Garratt Co., to Thomas, Bennett & Hunter, Westminster, $102,974. Noted Apr. 28.

Massachusetts—Dpt. P. Wks., A. W. Dean, engr., State House, Boston, bitulithic concrete paving 12,460 ft. hy. Newton, to Sherry Constr. Co., Fall River, $130,885; gravel and bituminous macadam paving 9,800 ft. Rochester, to M. F. Roach & Sons, Inc., East Bridgewater, $10,734. Noted May 12.

Michigan—A. L. Burridge, div. engr., Cadillac, grading, shaping, drainage structures, surfacing 6.124 mi. FO51-7C-3, Manistee Co., to E. L. McGuiston & W. H. Gilliland, Leroy, $52,438. Noted Apr. 7.

Michigan—A. L. Burridge, div. engr., Cadillac, grading, drainage structures 3.026 mi. FO4-15C-2, Alpena Co., to Royal Oak Cement Constr. Co., Birmingham, $31,835.

Michigan—W. J. Kingscott, div. engr., Kalamazoo, grading, drainage structures 0.576 mi. FO18-17C, St. Joseph Co., to R. B. Parham, Bronson, $9,253; widening grade and lengthening drainage structures 2.866 mi. FO3-30C-1, Allegan Co., to Marsman & Taber, Grand Rapids, $17,434.

Michigan—H. G. Oakes, div. engr., Plymouth, grading, shaping, drainage, concrete paving 0.072 mi. and 2 course gravel surfacing 0.05 mi. MO81-23C-3, and Contr. 3, MBr. 1 of 81-14-22C, 75 ft. span, 2 rein.-con. counterfort type abutments, steel deck girder, Washtenaw Co., to John R. Edelman Co. Inc., Muskegon Heights, $9,330 and $25,421 respectively; Contr. 2, MBr. 1 of 81-22C, to Fort Pitt Bridge Wks., Massillon, O., $4,346. Grand total $39,097.

Missouri—Bd. P. Wks., Jefferson City, to Land & Skilbred, St. Joseph, furnishing, applying road oil Div. 4, Group 4 $30,283; Div. 2, Group 2, $20,038; Div. 1, Group 1 $25,831—to Rock Hill Asphalt & Constr. Co., 1210 North Rock Hill Blvd., St. Louis, Div. 6 Group 6, $51,720; Div. 10, Group 10 $24,328—to Imperial Trucking Corp., Kansas City, Div. 7, Group 7, $16,150; Div. 5 Group 5, $15,029; Audrain Co. $3,813—to Carter Waters Corp., 2049 Main St., Kansas City, on Div. 9, Group 9C, $25,398; Div. 9, Group 9B, $31,027; Group 6 $7,383—to S. G. Hoyes & Co., Jefferson City, Group 3, Div. 3, $55,903—to P. F. Connelly Paving Co., 401 Locust St., Little Rock, Ark., Div. 8, Group 8, $21,417—to M. E. Gillioz, Monett, Div. 9, Group 9A, $32,514—to A. A. Davis Co., Inc., Cotton Grain Exch. Bldg., Oklahoma City, Okla., graveling or crushed stone paving 12.5 mi. Jasper Co.-Seneca Rd., Newton Co. $4,221. Grand total $365,055.

Neb., Omaha—City, to L. S. Noble Constr. Co., 1530 South 10th St., improving 34th Ave., 1,198 sq.yd. art stone paving at $1.15 per sq.yd., reinforcing at 24c. sq.yd., art curbing and guttering 38c. per ft., headers 9c., grading 18c. per cu.yd.—47th St. 3,344 sq.yd. art stone paving at $1.14 per sq.yd., reinforcing at 24c., art curbing and guttering 37c. per ft., headers 9c., grading at 18c. per cu.yd.—Pinkney St. 604 sq.yd. art stone paving and Cass St. 467 sq.yd. art stone paving at $1.17 per sq.yd., reinforcing 24c., curbing and guttering 38c. per ft., headers at 9c. per ft., grading at 18c. per cu.yd.—40th Ave., 2,113 sq.yd. art stone paving at $1.15 per sq.yd., reinforcing at 24c., art curbing and guttering 38c. per ft., headers 9c. per ft., grading 18c. per cu.yd.—Alley District 2968 720 sq.yd. art stone paving at $1.03 per sq.yd., grading 22c. per cu.yd.—Alley Dist. 3504, 538 sq.yd. B art stone paving at $1.05 per sq.yd., grading at 22c. per cu.yd.—Alley District 3508, 245 sq.yd. B art stone paving at $1.14 per sq.yd., grading at 27c. per cu.yd.

Nev., Reno—Asphalt concrete paving 350,000 sq.ft. various streets, to Union Paving Co., Call Bldg., San Francisco, Calif., $54,600; curbing, sidewalks, guttering, to T. Christensen, Reno, $30,585.

N. Y., Lyons—Wayne Co., L. R. Bevans, supt. Hys., constructing 2.948 mi. Savannah-Spring Lake Rd., and Munson's Corners-Evans Corners Rd., Savanah, to M. E. Cole, Inc., LeRoy, $31,649.

North Carolina—State Hy. Comn., Raleigh, grading, borrow, rock excavation, headwalls, concrete paving 16,800 sq.yd. Project 7741, Route 60, Watauga Co., to R. G. Lassiter & Co., Raleigh, $34,312. Noted May 5.

Ohio—O. W. Merrell, dir. hys., Columbus, brick paving, except brick, 1.445 mi. hy. Cuyahoga Co., to Roehl Bros. Paving and Constr. Co., 7008 Denison Ave., Cleveland, $30,421; furnishing, delivering brick for same to Cleveland Brick & Clay Co., 7511 Jeffries St., Cleveland, $18,678—brick paving, except brick 0.48 mi. Fayette Co., grading, draining, bituminous macadam widening 1,804 mi. Pickaway Co., to W. H. Ringwald & Sons Co., Chillicothe, $29,401 and $23,498 respectively—furnishing and delivering brick for same, to Hocking Valley Brick Co., 150 East Broad St., Columbus, $11,418—brick paving, except brick 2.035 mi. Sect. "B" Pittsburgh-Youngstown Rd., and grading, widening, draining, bituminous macadam resurfacing 2.354 mi. Sect. "T-2" Salem-Warren Rd., both Mahoning Co., to McCourt Constr. Co., 365 South Main St., Akron, $73,543 and $33,748 respectively—brick paving, except brick 4.599 mi. Muskingum Co., to Adams Bros. Constr. Co., Zanesville, $143,000 (contract subject to approval of Federal Government)—concrete paving 3.291 mi. Paulding Co., and 0.099 mi. Fulton Co., to J. A. Elder, Bryan, $62,460 and $18,264 respectively, 0.163 mi. Lake Co., to C. A. White Constr. Co., Willoughby, $4,440—1.179 mi. Pike Co., to Edwards Constr. Co., Sunbury, $25,376—5.1262 mi. Wood Co., to S. E. Johnson Co., Laskey Rd., Toledo, $173,780—4.3372 mi. Portage Co., to Robinson-Burns & Cooper Co., 337 South High St., Columbus, $70,046—bituminous macadam paving 0.995 mi. Hardin Co., to Carey & Carey, Ada, $13,832. Grand total $731,905. Noted May 13 Daily.

O., Cincinnati—Dir. P. Wks., concrete curbing, grading, concrete sidewalks, concrete paving 35,000 sq.yd. Columbia Ave., to Boyd & Cook, Union Trust Bldg., Dayton, $209,340. Est. $270,194.

O., Cleveland — City, cement sidewalks in Southern Dist., to H. E. Velotta, 2402 Mapleside Rd., $16,655—West Park Dist., to M. P. McDermott, 3486 East 150th St., $9,355—Northern and Western Dists., to Velotta Constr. Co., 1716 Preyer Ave., $16,724 and $12,486 respectively. Grand total $55,220. Noted Apr. 21.

O., Dayton—Montgomery Co., Court House, surface treating roads 317,536 sq.yd. 1 qt. M. T. plus 20 lb. pea gravel per sq.yd.; 62,624 sq.yd. 1 qt. C. T. plus ½ gal. M. T. plus 40 lb. pea gravel per sq.yd.; 1,000,000 sq.yd. 1 qt. M.T. plus 20 lb. pea gravel, spot work; 10,000 gal. M.T. applied, to T. D. Van Camp, 55 East State St., Columbus, $55,904. Est. $65,000. Noted May 12.

Oregon—State Hy. Comn., Salem, improving 8.3 mi. Wallula Cutoff, and widening, excavating Deschutes River Tunnel Sect. Columbia River Hy., to Newall & Co., Portland, $202,973 and $5,760 respectively—grading, widening 7.65 mi. Brooks-Salem Sect. Pacific Hy., to West Contract Co., Portland, $127,455 — bituminous macadam paving 27.34 mi. Newport-Eddyville Sect. Corvallis-Newport Hy. and oil surface treating 3.76 mi. Newport-Lane Co. line Sect. Oregon Coast Hy., Lincoln Co., to J. C. Compton, McMinnville, $82,576—concrete paving 1,218 ft. Elk Creek tunnel on Umpqua Hy. to Odom & Durette, Salem, $6,924—road mix surface treating 4.87 mi. Terrebonne-Redmond Sect. Dalles-Calif. Hy. and oil surface treating 11.5 mi. Mitchell-Dayville Sect. Ochoco Hy., to J. F. Forbes, Olympia, Wash., $42,595—grading 1.1 mi. Dillon Sect. Columbia River Hy. Wasco Co., to Clifton & Applegate, Hutton Bldg., Spokane, Wash., $19,832—bridge over Columbia River Hy., at Fulton, Sherman Co., to O. N. Pierce Co., 206 Russell St., Portland, $2,362. Grand total $490,477. Noted May 12.

Pa., Pittsburgh—Bd. P. Wks., City-County Bldg., asphalt resurfacing Brighton Rd. to McDonough & O'Toole, 514 Climax St., $7,924—curb cut backs on East Ohio St., to Harrison Constr. Co., 21st and Sidney Sts., $8,121—asphalt and 7 in. rein.-con. paving Baum Blvd., to McGrady Constr. Co., Investment Bldg., $23,[illegible] Grand total $39,143.

Pa., Pittsburgh—E. G. Lang, dir. Bd. P. Wks., City-County Bldg., grading, curbing, paving Alequippa St., to Schenley Constr. Co., 30 Boundary St., $7,084—grading, blockstone paving Majestic Way, to Nardulli & Sons Co., 1515 Washington Blvd., $2,424—asphaltic surfacing Shetland Ave., to Harrison Constr. Co., 21st and Sidney Sts., $7,603—steel and concrete repairs to Davis Bridge, to Volpe Bros., 447 Natchez St., $3,335—Clinton Street Sewer, incl. 12 in. terra cotta pipe, to Bloomfield Constr. Co., [illegible] Yew St., $663. Grand total $21,109.

Washington—S. J. Humes, dir. Hys., Olympia, applying road oil on State Rd. 9, Kitsap, Mason, Jefferson, Clallam, Grays Harbor and Pacific Counties, 12,875 bbl. on 103 mi. Schedule A, Sect. 1, to J. F. Forbes, Olympia, $20,[illegible]; 12,125 bbl. on 97 mi. Schedule B, Sect. 2, and 9,625 bbl. on 77 mi. Schedule C, Sect. 3, same road, to Diesel Oil Sales Co., 115 Belmont Ave. N., Seattle, $16,281 and $9,433 respectively—clearing, grubbing, grading, crushed stone surfacing 3.072 mi. Clallam Co., and 3.606 mi. Kitsap Co., to L. Coluccio & Co., 1638 Lane St., Seattle, $46,593 and $97,144 respectively. Grand total $190,051. Noted Apr. 21.

West Virginia—State Road Comn., Charleston, to Southern Oil & Tar Co., Clay St. and River Rd., Louisville, Ky., improving Danville-Lincoln Rd., Boone Co. $16,731; Harts Rd., Lincoln Co. $31,273; Echo-Ft. Gay Rd., Wayne Co., $18,360—to Miller & Plants, Madison, Foster Rd., Boone Co. $21,508 — to Murphy Constr. Co., Morgantown, Sutton-Nichol Rd., Braxton Co. $56,784—to Echols Bros., Alderson, Durgeon Rd., Hardy Co. $22,590—to Hunt-Forbes Constr. Co., Huntington, Marmot Rd., Kenawha Co. $66,631—to H. Hatfield, Barboursville, Yawkey Alum Rd., Lincoln Co., $99,760—to I. Mirabile, Welch, Dolph Rd., Mercer Co., $11,085 — to Pocahontas Constr. Co., Cass, Virginia State Line Rd., Pendleton Co. $111,440 — to Keely Constr. Co., Clarksburg, Marlinton-Maca Rd., Pocahontas Co. $80,728—to S. G. Polino, Fairmont, St. George Rd., Tucker Co. $105,489. Grand total $642,379. Noted May 12.

Man., Winnipeg—City, M. Peterson, clk., City Hall, local improvements, consisting asphalt and concrete paving, sidewalks, to W. P. Brereton, city engr., 223 James Ave. $250,000.

Ontario—Dpt. Hys., R. M. Smith, deputy minister, Parliament Bldg., Toronto, concrete paving 7 mi. hy. Listowel to Palmerston, Contr. 32-03, to Dufferin Constr. Co., foot of Bathurst St., Toronto—9 mi. hy. Collingwood to Stayner, Contr. 32-05, to King Paving Co., Oakville—mixed macadam paving 6.2 mi. Troy-Galt Rd., Contr. 32-06, to Standard Paving Co., Harbor Bldg., Toronto—grading 20 mi. Amerstburg-Kingsville Hy., Contr 32-08, to W A. Mackey, 469 Willard Ave., Toronto—concrete culverts Orland-Salt Creek Hy., Contr. 32-14, to Curran & Briggs, Manning Chambers, Toronto—concrete culverts Kingsville-Malden East Hy., Contr. 32-15, to Waltham & Fuller, Box 177, Strathroy—concrete culverts Amherstburg-Malden East Hy., Contr. 32-16, to Keystone Constr. Co., 612 Langlois Ave.; Windsor—concrete culverts on Clinton-Wingham Hy., Contr. 32-17 to Duncan Keys, Kincardine—concrete curbing hy. north of Midhurst, Contr. 32-18, to H. J. Clark, 28 Lessard Ave., Toronto—concrete bridge, north of Teeswater, Contr. 32-09, to F. Bell & Bros., R.R. 1, Goderich—bridge 6 mi. east of Amherstburg, Contr. 32-10, to J. A. Vance, 15 Market St., Woodstock—concrete bridge 2 mi. east of Harrow, Contr. 32-11, to Ryan Constr. Co., Confederation Life Bldg., Toronto—concrete bridge, Maitland River, near Moncton, Contr. 32-12 to J. Gaffney, West Moncton. Est. $500,000. Noted Apr. 14.

Ont., Chatham—Kent Co., W. D. Colby, engr., Harrison Hall, maintenance of county roads, incl. grading, ditching, drainage, graveling, culverts, surfacing, day labor. Voted $70,000 for maintenance and $7,500 for new road machinery.

Ont., Cobourg—Northumberland and Durham Counties, G. Greer, engr., County Bldgs., Cobourg, maintenance county roads, incl. grading, ditching, culverts, graveling, day labor. $100,000.

Ont., Hamilton—Asphalt on concrete paving sections of 20 streets, day labor. $342,000. W. L. McFaul, City Hall, engr.

Ont., Napanee—Lennox Co., T. V. Anderson, engr., County Bldgs., grading, surfacing, graveling, ditching, culverts, filling, etc., maintenance on County Roads 1 to 15, day labor. $54,000

Ont., Toronto—Asphalt paving Hertle Ave. and grading Eastwood Rd., to Kilmer & Barber, Harbor Bldg., $2,912 and $2,352 respectively—concrete paving lane east of Christie St. and lane north of Ashworth Ave., to P. Delgreco, 68 Montcalm Ave., $2,324—lane south of Danforth Ave., to L. P. Acri, 28 Grove Ave., $1,030—bitulithic paving Rusholme Rd., to Warren Bituminous Paving Co., 74 University Ave., $21,282. Grand total $29,900.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

Canada—Federal Govt. Dominion of Canada, supplementary estimates for fiscal year ending Mar. 31, 1933, as follows: Dredging Nova Scotia-Lunenburg, $17,000; New Brunswick-Miranuchi R., $12,000—reconstructing dam on Quebec side, Temiskaming, Que., $70,000—harbor improvements, Toronto, Ont., $24,000; further

Excavation, Drainage, Irrigation, etc. (Contd.) amount required for dredging Ontario and Quebec, $50,000. K. M. Cameron, Dpt. P. Wks., Ottawa, Ont., engr.

BIDS ASKED

Miss., Holly Springs—May 30, by Bd. Supervs. Marshall Co., constructing levee on fish preserve known as Duck Pond, on Coldwater Rd., north of here. S. V. Cochran, co. clk.

New Jersey—June 7, by Bd. Commerce & Navigation, State House, Trenton, dredging 131,461 ft. basin and channel in North Branch of Forked River Lacey Twp., Contr. 59. V. Gelineau, dir. and ch. engr.; adv. E.N.-R. May 26.

N. J., Cape May—June 7, at office Bd. Commerce & Navigation, State House, Trenton, dredging 280,551 cu.yd. in channel, Cape May Harbor, Contr. 58. V. Gelineau, ch. eng.; adv. E.N.-R. May 26.

Wash., Seattle—See "Streets and Roads."

Bond Elections

Coming Bond Elections

Distribution System, Reservoir, replacing 7,000 ft. pipe line—Santa Barbara, Calif. $300,000.
Water Plant — Victorville, Calif., purchasing, improving Appleton Water Co. plant. $50,000.
Power and Light Plan tand Distribution System—Osceola, Mo., June 3. $30,000.
Court House—Mount Clemens, Mich., Bd. Supervisors, Macomb Co., June 15, completing court house. $200,000. G. J. Haas, St. Clair Shores, archt.

Bonds Voted

Sewers—Las Vegas, Nev. $125,000.
Sewage Disposal Plant—Tyler, Tex. $100,000.
High Schools—Hannibal, Mo. $320,000. H. L. Thackwall, Jacksonville, engr.

Bonds Defeated

Civic Centre—San Leandro, Calif. $80,000.

FEDERAL GOVERNMENT

PROPOSED WORK

Calif., Oakland—SEAWALL, etc.—U. S. Eng., Alameda, preparing plans seawall and hydraulic fill, 8,500 tons rip rap, and 1,020,000 cu.yd. fill, at Benton Air Field.

Fla., Pensacola—SURFACING—Spec. 6823—Yards & Docks, Navy Dpt., Wash., D. C., slag and asphalt surfacing at Naval Air Station.

Mich., Alma—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., postponed indefinitely bids to have been opened May 18, U. S. Post Office. Noted Apr. 28.

N. M., Albuquerque—HOSPITAL—U. S. Bureau Indian Affairs soon takes bids Indian Hospital, $400,000. J. A. Wetmore, Treas. Dpt., Wash., D. C., acting superv. archt. Noted Dec. 10.

Pa., Pittsburgh—DREDGING—U. S. Eng., Cincinnati, O., 169,245 cu.yd. through Vevay Bar 537 mi. below here, and 192,000 cu.yd. through Rising Sun Bar, 505 mi. below here, both in Ohio River.

South Carolina—DREDGING—Dpt. Harbors & Rivers, Wash., D. C., 6 mi. channel, 75 ft. wide, 7 ft. deep at Fenwick's Cut between Ashepoo and Coosaw Rivers. $79,050.

S. C., Beaufort—BEACON—Dpt. Commerce, Dpt. Aeronautics, Wash., D. C., 2,000,000 candle power beacon and boundary lights for airport, on Richmond-Jacksonville line, Lady's Island.

Tex., Fort Sam Houston — PAVING — Con. Q.M. canceled bids to have been opened after July 1, permanent paving 50,000 sq.yd. around new army buildings. $100,000. Noted Jan. 14.

BIDS ASKED

Arkansas-Tennessee — AIRWAY BEACONS — June 2, by Div. Purchases & Sales, Dpt. Commerce, Wash., D. C., electric airway beacons on Little Rock-Nashville Sect. Dallas-Louisville Airway.

California—PIPING—Spec. 6909—June 1, by Pub. Wks. Officer, Navy Yard, Mare Island, furnishing, installing, piping, cabinets for 1½ in. fire hose and 1 booster pump at U. S. Naval Direction Finder Stations at South San Francisco and Eureka.

Calif., Alameda — SEAWALL — June 14, by Con. Q.M., seawall and hydraulic fill, Benton Field; adv. E. N.-R. May 26.

Calif., Monterey—POST OFFICE—June 24, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office; adv. E. N.-R. May 26. Noted Sept. 10.

Calif., San Francisco—CABLE—Con. Q. M., Fort Mason, taking bids 8,500 ft. underground parkway cable, 4 conductors, No. 6 wire for 4,400 v. at Fort Barry.

D. C., Wash.—GENERATORS—June 10, by Div. Purchase & Sales, Dpt. Commerce, Wash., D. C., 30-50 direct connected gasoline-driven engine generators, 3 kva. capacity, Proposal 24410.

D. C., Wash.—IRON, STEEL, etc.—June 8, by General Purchasing Officer Panama Canal, iron steel, journal packs, rails, frogs, switches, friction plates, angle bars, tracks, bolts, etc. Schedule 2756.

D. C., Wash—OFFICE—June 1 (extended date) by Treas. Dpt. at office Sup. Archt., Wash. D. C., U. S. Department of Justice Building (except elevators). $9,000,000. Noted Apr. 28.

Ga., Augusta—BOILERS, etc.—June 7, by Vet. Bu., Arlington Bldg., Wash., D. C., new boilers, fuel burning equipment for U. S. Veterans Hospital.

Ga., Brunswick—REMODELING, etc.—June 14, by Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office and Court House.

Idaho, Lewiston—REMODELING, etc.—June 14, by Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office; adv. E. N.-R. May 26.

Ill., Joliet—HEAD GATE, etc.—June 10, by U. S. Eng., 333 North Michigan Ave., Chicago, Ill., altering head gate and appurtenant work, at Brandon Road Dam on Des Plaines River; adv. E. N.-R. May 26.

Kan., Wichita—POST OFFICE, etc.—June 15, by Treas. Dpt. at office Sup. Archt., Wash., D. C., miscellaneous, changes in U. S. Post Office, Court House; adv. E. N.-R. May 26.

Louisiana—LOCK—June 21, by U. S. Eng., 1st New Orleans Dist., Poland and Dauphine Sts., New Orleans, constructing Vermilion Lock, Vermilion Parish; adv. E. N.-R. May 26.

La., Baton Rouge—SERVICE BUILDING—May 31, at office Con. Q.M., Fort McPherson, Ga., service building at U. S. National Cemetery.

La., Shreveport—STANDPIPE—June 15, by Co. Q.M., Barksdale Field, constructing 530,000 gal. steel standipe at Barksdale Field; adv. E. N.-R. May 26.

Mass., Boston—LATHE—May 31, by Bureau Supplies & Accounts, Navy Dpt., Wash., D. C., turret lathe to Boston Navy Yard.

Minn., Minneapolis—POST OFFICE—June 28, by Treas. Dpt. at office Sup. Archt., Wash., D. C., general contract 4 story, basement, 165 x 540 ft. steel, stone, Nicollet Ave. and 1st St. $3,500,000. Magney & Tusler, 104 South 9th St., archts.; adv. E. N.-R. May 26. Noted Mar. 24.

Mo., New Madrid—CULVERT EXTENSIONS, etc.—June 7, by U. S. Eng., Box 97, Memphis, Tenn., concrete culvert extensions, and c.i. sanitary sewer.

Mo., St. Louis—GRINDERS, etc.—June 1, by Dpt. Interior, U. S. Indian Warehouse, 806 Spruce St., tool grinders, tools, wire cloth, pipe, fittings scales, locks and other equipment for year 1933.

N. M., Roswell—REMODELING, etc.—June 9, by Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office.

N. Y., Albany—FOUNDATIONS—June 10, by Treas. Dpt. at office Sup. Archt., Wash., D. C., caisson founds. for U. S. Post Office. Court House and Custom House; adv. E. N.-R. May 26. Noted Feb. 2.

N. Y., Brooklyn—CABLE—June 6, by Signal Supply Office, Army Base, 58th St. and 1st Ave., 7 000 lin.ft. cable.

N. Y., Fire Island — DWELLING, BOAT HOUSE, etc.—June 9, by U. S. Coast Guard Headquarters, Wash., D. C., 2 story, 30 x 45 ft. frame dwelling, concrete found.; 1 story, 46 x 55 ft. frame boathouse, creosoted pile found.; 160 ft. wood pile and timber marine launchway; 2 creosoted pile, timber landing wharves, for Coast Guard Station.

N. Y., Fort Jay—BARRACKS—June 20, at office Con. Q.M., 39 Whitehall St., New York, completing detachment barracks (now partially completed), Governors Island; adv. E. N.-R. May 26.

N. Y., Niagara Falls—POST OFFICE—June 9, by Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling U. S. Post Office, freight elevator.

Ore., Portland—BOILERS, etc.—June 2, by U. S. Eng., Customhouse, water tube boilers, oil burners, blowers, soot blowers and smoke duct and overhauling dredge. Noted Mar. 17.

Pa., Jeanette—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about June 1, brick, steel U. S. Post Office. $250,000. C. Sorber, 1st Natl. Bank Bldg., Greensburg, archt. J. A. Wetmore, c/o owner, superv. archt. Noted Nov. 5.

Va., Norfolk—DREDGE—June 10, by U. S. Eng., Norfolk, converting S. S. Detroit Wayne into 20 in. seagoing agitator dredge; adv. E. N.-R. May 26.

Va., Quantico—ROADS—Specs. 6854, 6878 and 6809—June 8, by Yards & Docks, Navy Dpt., Wash., D. C., concrete roads, pavements, walls, scale pit, culverts, drains and sewers; bituminous macadam road and concrete ammunition pits; extending steam mains, replacing coal burning boilers and water heaters with steam converters and coil type water heaters at Marine Barracks; adv. E. N.-R. May 26.

Washington—TELEPHONE LINE, etc.—Spec. 570-D—June 1, by Bureau Reclamation, Denver, Colo., transmission and telephone line from Prosser power plant to line of Pacific Power & Light Co., Kennewick Div. Yakima Project.

Wash., Longview—POST OFFICE—June 27, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office; adv. E. N.-R. May 26. Noted Mar. 31.

BIDS RECEIVED

D. C., Wash.—OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., May 16, office for U. S. Dpt. Labor, Interstate Commerce Commission building and connecting wings, along Constitution Ave from 12th to 14th Sts., from Great Lakes Constr. Co., 42 South St., New York, $8,846,000. Noted Apr. 7.

CONTRACTS AWARDED

Calif., Petaluma—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to W. Spivock Co., Hobart Bldg., San Francisco, $91,700. Noted Apr. 28.

Calif., Stockton—DREDGING—U. S. Eng., California Fruit Bldg., Sacramento, 1,496,500 cu.yd. in Stockton, 26 ft. channel prism, to Amer. Dredging Co., 255 California St., San Francisco, 9.74c. per cu.yd. Noted Apr. 14.

Colorado—POWER PLANT—Bureau Reclamation, Denver, power plant in connection with Grand Valley Irrigation Project, to H. Shore, Grand Junction, $19,479. Est. $26,000. Noted Apr. 14.

Ill., Danville—HOSPITAL—Vet. Bu., Arlington Bldg., Wash., D. C., constructing, finishing complete Hospital Building 1, at U. S. Veterans Administration Home, to H. B. Ryan Co., 510 North Dearborn St., Chicago, $26,000. Noted Mar. 31.

Kan., Leavenworth — ADMINISTRATION HOME—Standard Accident & Insurance Co., 640 Temple St., Detroit, Mich., completing 2-6 story, basement, 102 x 249 ft. hospital, with 41 x 310 ft. wings, and 3 story, basement, 46 x 204 ft. nurses' home at U. S. Veterans Hospital, to M. Madsen Co., 618 National Bldg., Minneapolis, Minn., for Vet. Bu., Wash., D. C. Total est. $900,000. Former contract rescinded. Noted Jan. 14.

Massachusetts—DREDGING, etc.—U. S. Eng., Providence, R. I., 25,000 cu.yd. and undermining, removing 18,436 cu.yd. rock ledge, to Trimount Dredging Co., 10 State St., Boston, $108,599. Noted Apr. 14.

Me., Portland—EXCAVATION, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., excavation and dredging for U. S. Post Office, to Kerr & Houston, 142 High St., $36,000. Noted Apr. 21.

Me., Togus—REFRIGERATION WORK, etc. —Vet. Bu., Arlington Bldg., Wash., D. C., refrigeration for U. S. Veterans Hospital, to York Ice Mchy. Co., 1238 North 44th St., Phila., Pa., $9,400; elevator, to Otis Elevator Co., 70 Clarendon St., Boston, Mass., $17,406. Noted May 5.

Mich., Detroit—EXCAVATING—U. S. Eng., Detroit, deepening rock cut portion Livingstone Channel, Detroit River, to Arundel Corp., Pratt St., Baltimore, Md., $3,426,373. Noted Apr. 7.

Minn., Austin—EXTENDING, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., extending and remodeling U. S. Post Office, to Tapager Constr. Co., Albert Lea, $34,552 (360 days). Noted Apr. 28.

Minn., St. Paul — ROCK — U. S. Eng., 615 Commerce Bldg., 6,000 cu.yd. in Mississippi River near Lynxville, Wis., to F. J. Soengling, Guttenberg, Ia., at 73c. per cu.yd. plus towing charge. Noted Apr. 28.

Mo., St. Louis—DIKES—U. S. Eng., 2,600 lin.ft. dikes in Missouri River at Devils Island and Kinney Point, to Massman, Peterman Co., St. Louis, $71,525.

Nev., Elko—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to C. C. Madsen, Wash., D. C., $94,400. Est. $107,000. Noted Apr. 7.

Nev., Las Vegas—BULKHEAD GATES, etc.—Bureau Reclamation, Custom House, Denver, Colo., two 50 x 50 ft. bulkhead gates and gate frames for Hoover Dam, to Independent Bridge Co., Neville Islnad, Pa., $178,740; two 50 x 35 ft. stony gates and gate frames, to Lakeside Bridge & Steel Co., North Milwaukee, Wis., $25,931; 2 twin cylinder hydraulic bulkhead gate hoists, to Hardie Tynes Mfg. Co., Birmingham, Ala., $60,395; 2 stony gate hoists, to T. Reading Iron Wks., Reading, Pa., $32,500. Grand total $297,566. Noted Apr. 21.

New Jersey—DREDGING—U. S. Eng., Wilmington, Del., 262,000 cu.yd. in Big Timber Creek, to Lukens Dredging & Contg. Co., Snow Bldg., Baltimore, Md., $41,113. Noted Feb. 25.

N. J., Newark — COMMUNICATION and RANGE STATION—Div. Purchase & Sales, Dpt. Commerce, Wash., D. C., airways communication and range station building, at Newark Airport, to Shelton Constr. Co., Inc., 246 5th Ave., New York, $10,685.

N. Y., New York—FEDERAL COURT HOUSE Treas. Dpt. at office Sup. Archt., Wash., D. C., excavations and founds., for U. S. Court House, to G. J. Atwell Foundation Co., 136 East 57th St., $387,267. Noted May 16 Daily.

N. Y., New York—FURNACES—Treas. Dpt. at office Sup. Archt., Wash., D. C., new furnaces in U. S. Assay Office, to W. S. Rockwell Co., 50 Church St., $39,464.

O., Bucyrus—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to P. W Johnson, Portsmouth, $74,908 Noted Apr. 7.

Okla., Fort Reno—WATER WELL, etc.—Con. Q.M., 40 ft. water well and pump, to Layne-Western Co., Interstate Bldg., Kansas City, Mo., $1,400.

Pa., Phila.—DREDGING—U. S. Eng., 2nd Dist., 330,000 cu.yd. in Schuylkill River, to W. H. Gahagan, Inc., 147 Remsen St., Brooklyn, N. Y., 12c. per cu.yd. place measurement. Noted May 7.

Pa., Pittsburgh—LOCKS—U. S. Eng., Pittsburgh, Montgomery locks and erecting lock

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Federal Government (Continued)

gates on Ohio River, about 4.7 mi. above Midland, to Booth & Flinn Co., 1942 Forbes St., $1,553,794; furnishing lock gates, to Independent Bridge Co., Neville Island, $59,740. Noted Mar. 17.

Tenn., Memphis — EARTHWORK — U. S. Eng., Memphis, to Boone & Webster, Inc., Helena, Ark., 362,000 cu.yd. earthwork in Levee R-71, in St. Francis-White River and Upper Yazoo Levee Dist. $90,500; to Harris & Braderburg, West Memphis, Ark., 150,000 cu.yd. in R-143 $26,835; to Trinity Farms Constr. Co., Petroleum Tower Bldg., Dallas, Tex., 110,000 cu.yd. in R-143D est. $22,440, 535,000 cu.yd. L. 353A $111,033, 1,690,000 cu.yd. L. 356 A, B, C and D $315,185; to Gunter Constr. Co., 2819½ Florida St., Knoxville, 215,000 cu.yd. $40,420; to Valley Dredging Co., Donna, Tex., 500,000 cu.yd. R-319A $85,000, 535,000 cu.yd. L. 353B $90,950; to R. T. Clark Co., Inc., Delta Constr. Co. and J. W. Noble and M. G. Morrisey, Natchez, Miss., 500,000 cu.yd. R. 319B $88,400; to Stevenson & Co., Dumas, Ark., 480,000 cu.yd. R-320A $84,000; to Ayres & Graven, Alexandria, La., 463,000 cu.yd. R-320B $85,655; to Hardaway Contg. Co., Columbus, Ga., 1,000,000 cu.yd. R-321A and B $20,000; to F. S. Neely, P. O. Box 5219, Memphis, 984,000 cu.yd. L. 260A and B $130,872; to E. F. Powers Constr. Co., West Palm Beach, Fla., 1,820,000 cu.yd. L. 26A, B and C, $334,800; to Globe Constr. Co., 4646 Thalia St., New Orleans, La., 1,140,000 cu.yd. L. 332A and B $200,520; to C. W. Greeson, Opelousas, La., 525,000 cu.yd. L. 353C $91,350; to A. Guthrie & Co., Inc., 1300 Builders Exch. Bldg., St. Paul, Minn., 2,430,000 cu.yd. L. 353D, E and 354A $405,810; to Stevens Bros. and Miller Hutchinson, New Orleans, La., 600,000 cu.yd. L. 354D $131,100; to H. Hughey Co., Inc., 1181 Shrine Bldg., Memphis, 570,000 cu.yd. $111,150; to J. T. Pollard, Greenville, Miss., 1,005,000 cu.yd. L. 357A and B $180,050; to W. E. Denison & Son, Cushman, Ark., 495,000 cu.yd. L. 357C $90,338; 425,000 cu.yd. L. 357A $74,375; to D. Elkas, Leota, Miss., 200,000 cu.yd. L. 358 $35,400. Grand total $2,846,273. Noted Mar. 24.

Tex, Plainview—POST OFFICE—Treas. Dpt. at office Sup. Archt, Wash., D. C., U. S. Post Office, to W. B. Smith, El Dorado, $89,750. Noted Apr. 21.

Virginia—DREDGING—U. S. Eng., Norfolk, 176,638 cu.yd. in Pagan River, to Atkinson Dredging Co., Norfolk, $29,322. Noted Feb. 18

FEDERAL POWER COMMISSION

Applications for License and Permits Licenses

1204 — Copper River Packing Co., Colman Bldg., Seattle, Wash., wants license constructing power plant on Hanley Creek, east shore McClure Bay, southwestern Alaska, affecting lands within Chugach National Forest.

1205—Southern California Edison Co. Ltd., 601 West 5th St., Los Angeles, Calif., wants license partly constructed transmission line in Santa Barbara Co. affecting lands within Santa Barbara Natl. Forest.

RAILWAYS

BIDS ASKED

Washington—See "Streets and Roads," under Seattle.

GRADE CROSSINGS

PROPOSED WORK

Calif., San Diego—State Hy. Comn., Sacramento, plans 13 span 553 ft. rein.-con. overhead crossing, 44 ft. roadway over Atchison, Topeka & Santa Fe R.R. in Sorrento Canyon, north of here, San Diego Co. C. H. Purcell, hy. engr.

N. Y., Brighton—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, eliminating Butts Crossing To exceed $25,000. Pub. Serv. Comn. directed owner to award contract.

N. Y., Carmel—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, eliminating grade crossing at Baldwins Place, Mahopas County Hy. To exceed $25,000. Pub. Serv. Comn. approved plans.

N. Y., DeWitt—Delaware, Lackawanna & Western R.R. Co., G. J. Ray, ch. engr., Hoboken, N. J., altering grade crossing bridge on Nothingham County Rd. To exceed $25,000. Pub. Serv. Comn. approved plans.

N. Y., Duanesburg—Delaware & Hudson R.R. Co., J. McMartin, ch. engr., Albany, eliminating Esperance Station Crossing. To exceed $25,000.

N. Y., Farmington—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, and New York State Railways, 267 State St., Rochester, eliminating Barry's Crossing. To exceed $25,000. Pub. Serv. Comn. will hold additional hearings June 14.

N. Y., North Hempstead—Long Island R.R. Co., A. C. Watson, ch. engr., Penn. Station, New York, hearings before Pub. Serv. Comn. soon for change in existing structures on Jerusalem Rd. To exceed $25,000.

N. Y., Salem—Delaware &Hudson R.R. Co., J. MacMartin, ch. engr., Albany, eliminating grade crossing on Cambridge-Salem State Hy. $108,000. Pub. Serv. Comn. adopted general plan changing paving and directed State Dpt. P. Wks. to pay additional expense. Noted July 16.

N. Y., Wheatland—Buffalo, Rochester & Pittsburgh R.R. Co., subsidiary Baltimore & Ohio R.R. Co., H. A. Lane, ch. engr., Baltimore, Md., soon takes bids eliminating grade crossing at Scottsville-Mumford Highway. $131,200. Noted Feb. 25.

CONTRACTS AWARDED

New York—Delaware, Lackawanna & Western R.R. Co., G. J. Ray, ch. engr., Hoboken, eliminating Main St. Crossing in Cassville, and Plank Road Crossing in Paris, to N. D. Peters & Co., Inc., 216 Kossuth Ave., Utica, $52,232. Est. $83,606. Noted Nov. 12, under "Paris."

N. Y., Albany—Delaware & Hudson R.R. Co., J. MacMartin, ch. engr., locomotive blast protection on superstructures various crossings, to Booth & Flynn, 1942 Forbes St., Pittsburgh, Pa. Est. exceeds $25,000. Pub. Serv. Comn. directed award of contract.

N. Y., Avon—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., reconstructing railroad bridge carrying railroad over Genesee-Avon County Hy., to Newhall Co., Terminal Tower, Cleveland, O., $23,551; furnishing, delivering steel for same, to Amer. Bridge Co., 30 Church St., New York, $5,234; est. $44,848. Noted Dec. 25, 1930.

N. Y., New York—Pennsylvania R.R. Co., A. C. Watson, ch. engr., Broad St. Sta., Phila., Pa., rein.-con. cattle pass (tunnel) 38th St. and 12th Ave., to Poirier & McLane Corp., 33 West 42nd St., $43,800; also cattle pass, incl. holding pens, etc., from 12th Ave. to bulkhead line Hudson River, to Tilt-Hargan Co., 90 West Bway., est. $35,000.

N. Y., Saratoga Springs—Delaware & Hudson R.R. Co., J. MacMartin, ch. engr., Albany, awarded contract test borings for Geyser Crossing, to Sprague & Henwood, Inc., 11 West 42nd St., New York.

N. Y., Valley Stream—Long Island R.R. Co., A. C. Watson, ch. engr., Penn Sta., New York, major portion eliminating grade crossing by elevation Merrick Rd., Franklin, Rockaway and Scranton Aves., to Foley Bros., 117 Liberty Ave., New York, $1,880,000. Noted May 5.

DAMS

PROPOSED WORK

Calif., Los Angeles—State Engineer approved plans and soon takes bids San Gabriel Dam 1, rock fill type, about 320 ft. high, in San Gabriel Canyon about 9 mi. northerly from Azusa, for Los Angeles Co. Flood Control Dist., 202 North Bway., E. C. Eaton, engr. $10,000,000. Noted Apr. 7.

Saskatchewan—Provincial Govt., Regina, developing 30 mi. earth dam, at Souris, near Estevan.

PIERS AND WHARVES

PROPOSED WORK

Calif., Long Beach—See "Industrial Buildings."

Wis., Milwaukee—Common Council, bids in June, repairing municipal dock, foot East Lyon St. $48,000. C. U. Smith, ch. engr.

CONTRACTS AWARDED

N. Y., New York — Cunard Steamship Co., lessee, 25 Bway., demolition Pier 54, North River, to J. E. Smith, 3 East 44th St., for Dpt. Docks, Pier A, foot Battery Pl., owner. Preliminary plans for new pier in progress. Noted May 12.

AIRPORTS

CONTRACTS AWARDED

Ill., Chicago—Goodyear Tire & Rubber Co., C. E. Slusser, vice pres., 1144 East Market St., Akron, O., municipal airport hangar, to Austin Co., 16112 Euclid St., Cleveland, O. Est. exceeds $50,000. Noted Feb. 25.

Mich., Muskegon — Kohler Aviation Corp., Connors and Gratiot Sts., Detroit, hangar, to J. B. Rose, 3451 Haverhill Ave., Detroit. $25,000.

O., Cincinnati — City Manager, constructing concrete runways at municipal airport, involving 35,000 cu.yd. grading, 7,500 lin.ft. 12- to 27-in. pipe drains, and 86,000 sq.yd. 7 in. concrete paving, to Andrews Asphalt Paving Co., Greenville Ave., Glendale, $124,079. Est. $159,660. Noted Apr. 28.

GRAIN ELEVATORS

BIDS ASKED

Tex., Graham—See "Contracts Awarded."

CONTRACTS AWARDED

Tex., Amarillo—Burrus Panhandle Elevators, 2701 Alamo St., Dallas, and Amarillo, grain elevator addition. Owner builds. $40,000. Private plans.

Tex., Graham—Chas. E. Hinson Grain [illegible] 25,000 bu. grain elevator, day labor. Private plans.

Okla., El Reno—Canadian Milling Co., [illegible] elevator addition, incl. four 100,000 bu. [illegible] con. storage bins, to Jones-Hettelsater Co., [illegible] Mutual Bldg., Kansas City, Mo., $60,000.

POWER AND LIGHTING

PROPOSED WORK

Wash., Blaine—City Council plans ornamental lighting system, 8 standards to block, [illegible] 7 blocks Washington Ave. from Clark to C St.

Que., Montreal—City Executive Com. soon takes bids lighting system for St. Helen's Island. $45,000.

BIDS ASKED

N. Y., Buffalo—June 10, by Adjutant General, Div. Military & Naval Affairs, Capitol, Albany, electrical work, rewiring armory for 174th Infantry; adv. E. N.-R. May 26.

N. Y., New York—June 7, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., furnishing installing telephone and emergency alarm equipment for portion Independent System City-owned Rapid Transit Railroads extending from 145th St. to Webster Ave. Manhattan and Bronx Boros.

N. Y., Plattsburg—June 16, by Dpt. Education, State Educ. Bldg., Albany, electrical work, electric clock and interior telephone systems, New York State Normal School; adv. E. N.-R. May 26.

PARKS AND SPORTS

PROPOSED WORK

N. J., Elizabeth—Oakley & Son, archts., 1259 Clinton Pl., bids in summer, general contract 1 story, basement, brick, steel sports arena, for Owner, c/o architect. $300,000.

N. Y., New York—Community Councils of New York City, Municipal Bldg., plans equipping and conditioning playgrounds on vacant lands donated by individuals, various locations. To exceed $25,000.

BIDS ASKED

Okla., Oklahoma City—May 31, by State Hy. Dpt., Oklahoma City, new swimming pool in Glen Ellen Park, $25,000. L. M. Bush, City Hall, engr.

HEATING AND VENTILATING

PROPOSED WORK

Ind., Greencastle—Depew University soon lets contract alterations, additions and equipment to brick, steel heating plant. $40,000. Bevington & Williams, 1139 Knights of Pythias Bldg., Indinaapolis, engrs.

Mass., Brookline—Town, Bd. Selectmen, soon takes bids oil burners in municipal power plant. $27,000 appropriated. Stone-Underhill Heating & Ventilating Co., 171 Harrison Ave., Boston, engrs. Noted Mar. 24.

N. Y., New York—Emigrant Industrial Savings Bank, 51 Chambers St., plans by F. S. Keeler, 154 West 14th St., altering 6 story apartment, incl. new heating, vent stacks, plumbing and mechanical equipment, 425 East 6th St. To exceed $40,000.

BIDS ASKED

N. Y., New York—May 31, by W. C. Martin, archt. and supt., School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, heating, ventilating, plumbing, drainage, electrical work and lighting fixtures, for P. S. 95, Sedgwick Ave. between Norman and Gouverneur Aves., for Bd. Educ., 500 Park Ave.

UNCLASSIFIED

PROPOSED WORK

Calif., Oakland — MORTUARY — Truman Undertaking Co., 2935 Telegraph Ave., plans by Blaine & Olson, 1755 Bway., 2 story, basement, 100 x 145 ft., steel, brick mortuary, 38th St. $160,000.

Fla., Clearwater—RADIO STATION—Station WFLA, rebuilding and re-equipping radio station. To exceed $50,000.

Ill., Chicago—BROADCASTING STATION—Sonora Mfg. Co., 2613 Milwaukee Ave., 5,000 watt television broadcasting station with towers, power station, Milwaukee Ave. Private plans.

N. J., Ridgewood—MAUSOLEUM—Owner, c/o J. D. Lugosch, archt., 714 Bergenline Ave., Union City, 1 story, basement, stone. $1,000,000. **Maturity soon.**

N. Y., New York—COAL YARD, etc.—United Fuel Serv., lessee, 282 South St., coal yard, coal pockets, Tiffany St. and East River. J. R. Peterson, c/o lessee, owner.

Texas—PIPE LINE—Cardinal Co. and Phillips Petroleum Co., San Angelo, plans building 15 mi. 2½ in. pipe line from field to Fort Stockton, constructing loading rack and pumping station, Fort Stockton. Private plans.

Unclassified (Continued)

BIDS ASKED

N. Y., Brooklyn—STATION FINISH WORK—June 3, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, station finish work for Court St., Hoyt-Schermerhorn St., Fulton St., Lafayette Ave., and Clinton-Washington Ave. stations Rapid Transit R.R.

N. Y., Creedmoor—SERVICE TUNNELS—June 1, by Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, repairing service tunnels, Brooklyn State Hospital.

N. Y., Rochester—ELEVATOR—June 8, by Commissioner Mental Hygiene, State Office Bldg., Albany, electric elevator at infirmary building (Genesee Building) at Rochester State Hospital; adv. E. N.-R. May 26.

Tex., Brady—GAS PIPE LINE—See "Contracts Awarded."

CONTRACTS AWARDED

California—GAS PIPE LINE—Southern Counties Gas Co., 810 South Flower St., Los Angeles, trenching and laying 44 mi. 12¾ in. O. D. steel pipe (electric welded joints) line from Orange Co. line to point 12 mi. north of San Diego, to toLindgren-Swinerton, Inc., 225 Bush St., San Francisco, and 523 West 6th St., Los Angeles, $88,000, contract for pipe, to Republic Steel Corp., 112 West 9th St., Los Angeles.

North Carolina—ELECTRICAL WORK, etc.—State Hy. Comn., Morgan St., Raleigh, electrical work on prison camp, 1 mi. northwest of Spindale, to Mill & Marine Electric Co., Inc., $865; plumbing, to Miller & Seagle, Hickory, $2,165; roofing, to G. M. Beaty Co., Charlotte, $1,427. Grand total $4,457. Noted May 19.

Tex., Brady—GAS PIPE LINE — Empire Southern Gas Co., Alexandria, La., 5 mi. 8 in. natural gas pipe in industrial district, own forces. $35,000. Pipe purchased.

Utah, Salt Lake City—RADIO STATION—K.S.L. Broadcasting Station, 35 Richards St., transmitting station building to Cherdron Constr. Co., McIntyre Bldg., $21,390. Noted Mar. 17.

MATERIALS

BIDS ASKED

WATER PIPE, etc.—**Gridley, Calif.**—June 6, by J. L. Lewis, city clk., 2,000 ft. 4 in. and 2,000 ft. 6 in. c.i. B and S Class 150 water pipe, miscellaneous fittings.

EMULSIFIED ASPHALT—**Hartford, Conn.**—May 31, by Bd. Contr. & Supply, at Mayor's Office, Municipal Bldg., 60,000 gal. more or less emulsified asphalt to Bd. Street Comrs. J. S. Bush, secy.; adv. E. N.-R. May 26.

LUMBER—**Shreveport, La.**—June 1, by Caddo Parish Police Jury, 53,248 f.b.m. creosoted lumber. J. T. Bullen, Shreveport, engr.

LUMBER—**Mayersville, Miss.**—June 6, by Bd. Supervs. Issauquenna Co., 50,000 ft. more or less cypress and creosoted bridge and culvert lumber.

LUMBER, etc.—**New York, N. Y.**—June 3, by M. F. Kenney, deputy and acting comr. Purchase, Municipal Bldg., lumber and wood paving blocks to Dpts. Correction, Docks, Parks-Bronx, Parks-Manhattan, Plant and Structures, Sanitation, Water Supply, Gas & Electricity, and Police Dpt.

PIPE, etc.—**New York, N. Y.**—June 1, by M. F. Kenney, deputy and acting comr. Purchase, Municipal Bldg., pipe, valves, fittings, to Dpts. Correction, Parks-Bronx, Plant & Structures, and Water Supply, Gas & Electricity; granite paving blocks to Plant & Structures.

BITUMINOUS MATERIAL—**Akron, O.**—June 1, at office B. J. Hill, city purch. agt., 205 Municipal Bldg., furnishing, applying 100,000 gal. bituminous material for macadam pavements in Akron.

BINDER, etc.—**Bellevue, Pa.**—June 7, by J. M. Simeral, secy., Boro Hall, 380 tons binder; 630 cu.yd. mixed concrete; 160 tons top asphalt; 122,000 vitr. paving brick for paving in Forest Ave. P. H. Martin, Fitzsimmons Bldg., Pittsburgh, engr.

HYDRATED LIME—**Braddock, Pa.**—June 6, by J. R. Shermer, boro secy., 1 year's supply hydrated lime for water purification purposes furnished in 25 ton carloads every 30 days in 50 lb. paper sacks. W. J. Caughey, supt. Pub. Wks.

ROAD OIL—**Butler, Pa.**—June 3, by B. H. Rogers, pres. Bd. Comrs. Butler Twp., Butler County Natl. Bank & Trust Bldg., carload lots of asphaltic base road oil.

WATER PIPE—**Phila., Pa.**—June 2, by Bureau Water, Dpt. P. Wks., City Hall, Contr. 1038; furnishing, laying 48 in. steel water pipe in various streets; Contr. 1039, furnishing, delivering c.i. sleeves for Belmont Pumps; Contr. 1040, Standard Bureau of Water valve boxes; Contr. 1041, valves, Contr. 1042, low pressure fire hydrants, Contr. 1043, c.i. bell and spigot water pipe and special castings.

ASPHALT—**Madison, Wis.**—May 31, by State Hy. Comn., 306,000 gal. asphalt Type C, 50-60.

CHLORIDE, etc.—**Milwaukee, Wis.**—June 3, by State Hy. Comn. and Hy. Com. Sheboygan Co., at Div. 2, Commerce Bldg., furnishing 95 tons calcium chloride Ozaukee and Washington Counties; 134,000 gal. asphalt Type C 50-60, Washington and Waukesha Counties; 130,000 gal. ashpalt type E. Waukesha Co.; 24,000 gal. tar Type B, Walworth Co.: applying 24,000 gal. tar Type B, Walworth Co.; 48,000 gal. asphalt Type C, 216,000 gal. bituminous material Waukesha Co.; 400,000 gal. asphalt Type C 50-60, Sheboygan Co.

ASPHALT—**Wisconsin Rapids, Wis.**—June 1, by State Hy. Comn., Citizens Natl. Bank Bldg., Wisconsin Rapids, furnishing, applying 150,000 gal. asphalt type C 60-70, Adams Co.; and applying 36,000 gal. asphalt type C 50-60, Juneau Co.

TELEPHONE CABLE—**Winnipeg, Man.**—May 30, by M. Peterson, city clk., City Hall, quantity telephone cable for hydro-electric system of city. R. H. Andrews, 55 Princes St., ch. electrical engr.

CAST IRON PIPE, etc.—**Kincardine, Ont.**—June 1, by W. Kearns, chn. P. Utilities Comn., **(a)** furnishing 2,100 lin.ft. 16 in. steel or c.i. pipe with jointing material **(b)** constructing crib for laying pipe, **(c)** combined bid of (a) and (b) for waterworks intake. $15,000. Wynne-Roberts, Son & McLean, Metropolitan Bldg., Toronto, engrs.

CONTRACTS AWARDED

PIPE—**Coalinga, Calif.**—City, 1,200 ft. 3 in. 8-thread standard lap welded pipe (black), to Steel, Inc., Chamber of Commerce Bldg., Los Angeles, at $33.60 per 100 ft.

PIPE—**Signal Hill, Calif.**—Utilities Equipment Corp., 110 North Alameda St., Los Angeles, furnishing 2,409 ft. 6 in. c.i. water pipe, to R. D. Wood & Co., 400 Chestnut St., Phila., Pa., $1,000, for City.

ROAD GRAVEL—**Galesburg, Ill.**—State Aid Road Comn. Knox Co., 12,160 tons gravel for surfacing Altona Rd. and 6,190 tons for Henderson Rd., to Western Sand & Gravel Co., Springvalley, at $1.65 and $1.68 per ton respectively; furnishing, spreading 7,119 tons gravel on Williamsfield Rd., to T. O. Miles, Galesburg, at $1.72 per ton.

LUMBER, PIPE, etc.—**Ida Grove, Ia.**—At office Ida Co., 1,600 ft. creosoted yellow pine posts, 2,500 ft. creosoted yellow pine piling, 30,000 ft. fir and 17,000 ft. creosoted yellow pine lumber, to E. S. Gaynor Co., 1819 East 3rd St., Sioux City, $3,232; 1,400 ft. rein.-con. culvert pipe, to Wilson Concrete Co., Red Oak, $3,977; 1,200 ft. corrugated metal culvert pipe, to Wheeling Corrugating Co., Des Moines, $1,071. Grand total $8,280. Noted Apr. 14.

PIPE—**Whitman, Mass.**—Municipality, furnishing 100 tons c.i. pipe, to Warren Fdry. & Pipe Co., Wharton, N. J.

WATERMAIN—**Rochester, Minn.**—City, 5,602 lin.ft. c.i. watermain to C. G. Fraser, 1957 University Ave., St. Paul, $5,861. City furnishes pipe.

TAR—**Trenton, N. J.**—Hamilton Twp. Comn., 45,000 gal. road tar, to Barrett Paving Co., Trenton Trust Bldg., $7,174. Noted May 12.

STEAM ASHES, etc.—**Long Island City, N. Y.**—G. U. Harvey, pres. Queens Boro., Queens Subway Bldg., 12,000 cu.yd. ashes, to Empire Cinders Delivery Co., 341 Madison Ave., New York, $7,560; 15,000 cu.yd. broken stone screenings, to E. B. Simpson, Inc., $29,925; 42,500 gal. asphaltic macadam binder in tank cars, to Standard Oil Co., 26 Bway., New York, $2,155. Grand total $39,640. Noted Apr. 18.

ASPHALTIC MACADAM BINDER — **St. George, N. Y.**—J. A. Lynch, pres. Richmond Boro, Boro Hall, asphaltic macadam binder, to Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $13,800; asphaltic cement, to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $4,106; 1,500 tons concrete, and bituminous concrete, to W. P. McDonald Constr. Co., 7 Lawrence St., Flushing, $14,475 and $4,825 respectively; fuel oil, to Warren Oil Co., 5th St., $2,625. Grand total $39,831. Noted Apr. 7.

COLD PATCH, etc.—**Troy, N. Y.**—Bd. Contr. & Supply, cold patch and asphalt emulsion, to Barber Asphalt Co., 420 Lexington Ave., New York, at 15c. and 7.9c. per gal respectively. Noted Mar. 31.

METAL PIPE, etc.—**Raleigh, N. C.**—State Div. Purchase & Contr., furnishing 2 carloads 15 and 18 ft. corrugated metal pipe, to Wheeling Corrugating Co., Richmond, Va., at $1,638 and $1,553 respectively; 1 carload corrugated metal pipe, to Dixie Culvert & Metal Co., Raleigh, $1,428; 1 carload lubricant, to Sinclair Refining Co., 45 Nassau St., New York, $1,252; 38,000 lb. structural steel, to Carolina Steel & Iron Co., Greensboro, $924; 300 scarifier teeth, to Dillon Supply Co., 216 South West St., $306. Grand total $7,101.

STRUCTURAL STEEL, etc.—**Raleigh, N. C.**—Division Purchase & Contr., A. S. Broer, dir., to Carolina Steel & Iron Co., Greensboro, furnishing 26,275 lb. structural steel to Roaring River $641, 14,754 lb. to Benaja $363, 12,434 lb. to Roaring River $305; to Southern Eng. Co., Wilkinson Blvd., Charlotte, 19,596 lb. structural steel to Greensboro $479; to Aluminum Co. of America, Rhodes-Haverty Bldg., Atlanta, Ga., 10,000 gal. aluminum powder for 2 years, at 39.25c. per lb.; to Dillon Supply Co., 216 South West St., Raleigh, 1 car galvannealed sheets at $4.95 per 100; to Champion Chemical Wks., 19 West Austin St., Chicago, Ill., 10 cases chlorinated lime, $50.

SULPHATE of ALUMINA—**Cleveland, O.**—City, sulphate of alumina, to General Chemical Co., Warner Rd., $60,000.

ROAD OIL, etc.—**Fort Atkinson, Wis.**—State Hy. Comn., Milwaukee, furnishing, applying 20,000-30,000 gal. road oil, to Standard Oil Co., 414 Michigan Ave., Milwaukee, at 2.94c. per gal.; 8,000 gal. tarvia B, to Barrett Co., 2800 South Sac Ave., Cheiago, Ill., at 9.15c. per gal.

CRUSHED LIMESTONE, etc. — **Milwaukee, Wis.**—Milwaukee County Park Comn., to Lake Shore Sand & Stone Co., 1224 West Canal St., crushed limestone for road on Oak Street Parkway, in South Milwaukee $5,568, keying stone $870, sand for concrete $682, crushed gravel for concrete $992; to Consumers Co., 4135 West State St., base stone $5,720; to South Milwaukee Coal & Material Co., South Milwaukee, cement $2,840; to Koppers Prod. Co., 110 East Wisconsin Ave., tar $11,800. Grand total $28,472.

BLENDED TAR, etc.—**Ottawa, Ont.**—City, blended tar, to Currie Products Ltd., at 17c. per imperial gal.; cold patch, to Imperial Oil Co., Imperial Oil Bldg., Toronto, at 17c. per imperial gal. (14.5c. in carload lots); sheet asphalt for repairing pavements and black base, to O'Leary's Ltd., Bank Nationale Bldg., at $1.40 and $1.35 per sq.yd. respectively.

EQUIPMENT

PROPOSED WORK

AMMONIATOR — **Eureka, Calif.** — City, J. Griffith, city supt., purchasing ammoniator for Water Dpt.

TRACTOR—**Albert Lea, Minn.**—A. C. Hartz, aud. Freeborn Co., rejected bids May 3, crawler type tractor. Noted Apr. 21.

STORAGE TANK—**St. Louis, Mo.**—E. Grosse & Pretorian Realty Co., 6010 Delmar Blvd., installing one 20,000 gal. storage tank and 4 gasoline pumps for filling station, at 6010 Delmar Blvd.

TANKS, etc.—**St. Louis, Mo.**—Standard Oil Co. of Indiana, 314 North Jefferson Ave., installing three 1,000 gal. underground storage tanks and 6 gasoline pumps at northeast corner Watson Rd. and Arsenal St.

BIDS ASKED

SHOVELS—**California**—June 1, by State Purchasing Agent, Sacramento one 1¼ yd. capacity power shovel under Quotation 42980 Requisition 6805½, for Monterey; 1¼ yd. capacity Diesel Power Shovel, Quotation 42976, Requisition 11912½, Thermalito; two 1¼ yd. power shovels, Quotation 42980, Requisition 6805½, San Luis Obispo, 1¼ yd. Diesel Powered Shovel, Quotation 42979, Requisition 7340, Orange Grove; ¾ yd. Diesel Powered Shovel, Quotation 42976, Requisition 11912½, Virgilia.

CONDENSER and BOILER—**Springfield, Ill.**—City bids latter part of June condenser and boiler for city light and power plant. Burns & McDonnell Eng. Co., 406 Interstate Bldg., Kansas City, Mo., engrs.

TRUCKS—**Indiana**—June 1, by State Hy. Comn., Indianapolis, 52 trucks of 1½ ton heavy classification; 4 to 10 chassis of 1½ ton class, incl. front bumper, front fenders and cab, f.o.b. various points in Greenfield, Seymour and Vincennes Districts. J. J. Brown, dir.

PUMP, etc.—**Topeka, Kan.**—City Council bids about June 1, new 4,000 g.p.m. motor driven pump at North Topeka Pumping Station, also moving 2 old pumps from North Topeka to Madison Street Station; awarded contract auxiliary discharge line from Ash or Cedar Street Pumping Station to Kansas River, also line with East Side Sewage Disposal Plant, to C. A. Ritchie, 1600 McVicar St., $3,900.

PUMPING EQUIPMENT—**Saratoga, N. Y.**—City bids about June 15, new electric pumping equipment, for Water Dpt. $15,000.

PUMP—**Mayville, N. D.**—June 6, by City, centrifugal pump direct connected to 220 volt 60 cycle alternating current electric motor. S. Groh, auditor.

BOILER FEED PUMPS, etc.—**Columbus, O.**—June 18, by T. S. Brindle, dir. P. Wks., Ohio Hartman Bldg., 2 boiler feed pumps, 1 feed water heater and connections for Bowling Green College at Bowling Green, $8,000; also 1 Zolite water softening system. $3,000.

METERING EQUIPMENT—**Columbus, O.**—June 20, by Dpt. P. Welfare, 9th and Oak Sts., J. McSweeney, dir., combustion control and metering equipment for power plant at Ohio Penitentiary.

STACK, **Columbus, O.**—June 18, by T. S. Brindle, dir. P. Wks., brick stack, 147 ft. high, for power plant, Bowling Green College, Bowling Green. $10,000.

DORMITORY MATERIALS — **Otey, Tex.**—Texas Prison System, c/o W. A. Paddock, chn., Austin, taking bids materials for 2 story, T-shaped, 52 x 200 x 66 x 80 ft., brick, rein.-con. dormitory at Ramsey Prison Farm. Construction of dormitory to be done by convict labor. Giesecke & Harris, Norwood Bldg., Austin, archts.

WATER WHEEL—**Rutland, Vt.**—P. R. Eaton in market 1 water wheel direct connected and suitable to operate 5 kva. generator.

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Equipment (Continued)

CONTRACTS AWARDED

BOILER—**Colorado Spring, Colo.**—City Comn., furnishing, installing 6,000 ft. condenser for power plant, to Ross Heater & Mfg. Co., 1407 West Ave., Buffalo, N. Y., $10,790; 5,000 kw. turbine, to Elliott Co., Frick Bldg., Pittsburgh, Pa., $69,480 est. $95,000. Noted May 12.

BOILER—**Kansas City, Kan.**—Bd. Pub. Utilities, C. W. Lowder, secy., 6,000 hp. water tube boiler for municipal light and power plant, to Babcock & Wilcox Co., Railway Exch. Bldg., St. Louis, Mo., $229,100. Est. $300,000. Noted Apr. 28.

FIRE ENGINES—**Paterson, N. J.**—Bd. City Comrs., City Hall, furnishing, delivering fire engines for City Fire Dpt., to Ahrens Fox Fire Engine Co., 2539 Colerain St., Cincinnati, O., $29,950. Est. $25,000. Noted Apr. 28.

INSULATOR CAPS—**New York, N. Y.**—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., contact rail insulator caps, Group 3, to Acme Steel & Malleable Iron Co., 32 Nassau St., $3,727. Noted Apr. 28.

WATERPROOFING—**Cleveland, O.**—City, waterproofing for Fulton Rd. Bridge, to Byerlyte Corp., West 4th St., $14,149.

DORMITORY MATERIALS—**Otey, Tex.**—See "Bids Asked."

FILTER TANKS, etc.—**Winnipeg, Man.**—City, Bd. P. Parks, City Hall, filter tanks less chlorinator, to Water Equipment Ltd., 114 Jarvis St., Toronto, Ont., $4,030; chlorinator, to Wallace & Tiernan Ltd., Winnipeg, $697; additional 2½ in. vacuum line, to Cotter Bros., 235 Garry St., $2,153; building area for putting tanks, to Malcolm Constr. Co. Ltd., 445 River Ave., $512, all foregoing for complete filtering system, chlorination and cleaning plant at Sargent Park. Grand total $7,392.

AIR COMPRESSOR, etc. — **Toronto, Ont.** — York Twp., 1 air compressor for Rockliffe Sewage Disposal Plant, to Laurie & Lamb, 43 St. Sacrament St., Montreal, Que., $9,400; electric motor for same, to English Electric Co. Ltd., St. Catharines.

FOREIGN

Argentina, Buenos Aires—Ministry of Interior plans mooring mast at airport. $500,000.

Colombia, Cartagena—Frederick Snare, Inc., contractors, 114 Liberty St., New York, awarded contract excavation work for ocean and river port works, for connecting port with Magdalena River, to W. H. Gahagan, Inc., 147 Remsen St., Brooklyn, N. Y., for Government, Bogota. Noted Apr. 28.

France, Havre—Vacuum Oil Co., 61 Bway., New York, industrial buildings, sewers, all part of refinery work, to Foundation Co., Foreign, 120 Liberty St., New York. Est. $400,000. Noted Apr. 30.

Iraq—Iraq Petroleum Co. Ltd., London, England, 8,500 tons 10 in. steel pipe for pipe line, to Group headed by National Tube Co., 71 Bway., New York. Noted May 19.

Italy—Dpt. P. Wks., Rome, preliminary studies 2,000 meter bridge, 70 meters wide, 120 meters vertical clearance over Straits of Messina between Canzini and Pezzo. To exceed $1,000,000.

South Africa — Union South Africa, Dpt. South African Railway Administration, Cape Town, 1,000 mi. railroad from Windhock, Southwest Africa to Bulawayo, Rhodesial; and 200 mi. from Messina on River Limpopo Transvaal to Bulawayo, Rhodesia. **Maturity indefinite.**

Spain — Ministerial de Instruccion Publica, Madrid, plans 5,000 schools yearly. Contracts awarded to local contractors for current year and appropriations made.

Union Socialist Soviet Republics — Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, plans dredging and deepening channel, constructing docks, yards and barge and ship building works, Lake Balkhash. To exceed $1,000,000.

Union Socialist Soviet Republics — Commissariat fro Agriculture, Moscow, or c/o Amtorg Trading Corp., 261 5th Ave., New York, plans program for irrigation, waterworks and drainage systems. $215,000,000.

U. S. S. R., Leningrad—Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, international architects competition, for designs for Lenin Monument. Drawings due Sept. 15, 1932. $6,000,000.

Commercial Buildings

PROPOSED WORK

Calif., Oakland — A. E. Kern, et al., 110 Sutter St., San Francisco, plans by Reed & Corlett, Oakland Bank Bldg., Class A office and store, Bway. and Telegraph Ave. $500,000.

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Calif., Pasadena—California Institute of Technology, 1201 East California St., plans by Engineering Department of Commerce, and takes bids from selected list of contractors about June 1, Optical Building, 60 x 175 ft., concrete, steel, 55 ft. high, stone, 1201 East California St. $175,000.

Calif., Redwood City—City of San Francisco and San Francisco Co., plans by A. F. Roller & D. A. Riedy Associates, 1st Natl. Bank Bldg., San Francisco, Class A county jail, near Sneath Ranch, San Mateo Co. $800,000. Noted Mar. 31.

Ill., Chicago—Messiah Evangelical Lutheran Church, T. L. Rybeck, pastor, 852 North Waller St., soon takes bids 73 x 112 ft. church and Sunday school, 40 x 70 ft. parish house, 34 x 40 ft. parsonage, Indiana limestone, Massasoit and Iowa Sts. $150,000. L. E. Stanhope, Wrigley Bldg., archt. Noted Jan. 21.

Md., Woodensburg (mail Reisterstown)—Smith & May, archts., Baltimore Trust Bldg., Baltimore, soon lets contract 1 and 2 story, 50 x 127 ft. and 34 x 90 ft., local stone, structural steel brick school and cottage, for Montrose School for Girls. C. Tucker, Fidelity Bldg., Baltimore. $150,000.

Mass., Belmont—Belmont Day School, 44 Clark St., plans by L. H. Reasoner, Old Concord Bldg., 2 story, basement, brick, steel addition. $150,000.

N. J., Berkshire Valley—Bd. Educ., L. Kolar, clk., School Bldg., rejected bids Jan. 12, 2 story, basement, addition to Milton School. $150,000. J. J. Vreeland & Son, 1600 Blackwell St., Dover, archts., owner going ahead with smaller project. Noted Dec. 24.

N. J., Newark—St. George Greek Catholic Church, G. N. Kandra, pastor, 89 Aster St., and D. J. Scrocco, archt., 440 Central Ave., Orange, soon let general contract 2 story, basement, brick, steel church, rectory, Warwick and Lang Sts. $150,000. F. Nagy & Associates, Bethlehem, Pa., assoc. archts. Noted May 19.

N. J., Paterson—J. Holt, archt., 134 Market St., rejected bids 2 story, basement, brick, steel store and office, Fair and Main Sts., for I. Jacobs, Inc., 70 Main St. $150,000. **Maturity indefinite.** Noted Apr. 28.

N. Y., New York—Eighty-five Park Avenue Corp., c/o W. A. Adams, 17 East 42nd St., plans by A. F. Darrin, 101 Park Ave., 6 story, 123 x 155 ft. store, restaurant, hotel, Park Ave. and 39th St. To exceed $150,000.

BIDS ASKED

D. C., Wash.—June 7, by District Commissioners Giddings School additions. $170,000.

Mass., Boston—June 2, by City, Dpt. School Buildings, City Hall, 2 story, basement, brick, limestone, steel elementary school, plain found., Prescott Emerson Dist., East Boston. $150,000. Former bids rejected. Desmond & Lord, 1 Beacon St., archts. Noted May 5.

Mass., Dedham—St. Mary's Roman Catholic Church, G. P. O'Connor, pastor, 420 High St., taking bids 2 story, basement, 75 x 225 ft., brick, stone parochial school, plain found., High St. $150,000. Wadsworth, Hubbard & Smith, 11 Beacon St., Boston, archts. Noted Dec. 17.

Mass., New Marlboro—Town, Building Comn., bids about June 1, 2 story, basement, brick, stone combined high and elementary school, plain found., $150,000. Hynes & Mason, 15 Prospect St., Leominster, archts. Noted May 12.

Mo., St. Louis—Bd. P. Serv. bids about May 31, general contract (1st unit) 7 story, basement, 322 x 493 ft., brick, steel, municipal auditorium, Market St. from 14th to 15th Sts. $3,000,000. Total $5,000,000. Plaza Comn., Inc., c/o LaBeaume & Klein, 716 American Trust Bldg., engrs. and archts. Noted Mar. 24.

N. J., Jersey City—C. Shilowitz, archt., 26 Journal Sq., taking bids general contract 3 story, basement, brick, steel store, office, Journal Sq., for J. P. Gannon & Son, 921 Bergen Ave. $150,000. Noted Apr. 21.

N. J., Montclair—A. E. Ramhurst, archt., 516 Bloomfield Ave., taking bids general contract 2 story, basement, brick, steel, office and store, South Fulleterton Ave. and Church St. for H. and D. Harris, 539 Bloomfield Ave. $150,000. Noted Feb. 2.

N. Y., Brooklyn—See "Contracts Awarded."

N. Y., Buffalo—June 23, by Adjutant General, Div. Military & Naval Affairs, Albany, drill hall for 106th Field Artillery. $900,000. Noted Mar. 17.

N. Y., Geneva — June 2, by Commissioner Education, Education Bldg., Albany, repairing and altering buildings at New York State Agricultural Experiment Station.

N. Y., New York—June 1, by H. O. Chapman, archt., 6 East 45th St. (from selected list contractors only), 8 story library, 17 East 47th St., for Mercantile Library, 17 East 47th St. $350,000. Noted May 12.

Ore., Tillamook—June 9, by Tillamook Co., Court House, general contract 2 story, basement, 92 x 211 ft., brick, steel courthouse, incl. jail equipment. $177,000. Lawrence, Holford, Allyn & Beal, Failing Bldg., Portland, archts. Noted Apr. 21.

Pa., Phila.—June 7, by Bd. Educ., Administration Bldg., W. Rowen, pres., 1 story, brick addition to Girls High School. $165,000. J. T. Catharine, Administration Bldg., archt.

Pa., Phila.—Girard Engr. & Constr. Co., contractors, 1407 North American Bldg., taking sub-bids 2 story, brick, stone apartment and store building, 19th and Chew Sts., for owner. Total $200,000. Private plans.

Pa., Phila.—May 31, by Frank G. Shattuck Co., 58 West 23rd St., New York, restaurant, store, 1216 Chestnut St. To exceed $150,000. G. E. Birge, 29 West 34th St., New York, archt. Noted Apr. 7.

Pa., Phila.—May 31, by F. R. Watson, Elkins & Thompson, archts, Architects Bldg., for Lady Chapel of Cathedral Church of Christ, 1½ story, 29 x 131 ft., concrete, steel, limestone, electric brass radiators northside Henry Ave., west of Ridge Ave., Roxborough, for Protestant Episcopal Diocese of Pennsylvania, F. Gaitt, bishop, 202 South 19th St.

Wis., Milwaukee—June 2, by Bd. School Directors, precast roof construction, steel and iron work, masonry, cut stone, roofing, carpentry work, sheet metal, metal windows, marble and interior stone work and slate blackboards for Rufus King High School; and stage equipment for Steuben Junior High School. Noted Mar. 24.

Ont., Toronto—June 6, by Chapman & Oxley, archts., Sterling Tower, altering 3 story, basement museum, Bloor St., incl. new partitions, electric elevators, stair changes, new plumbing and steam heating, for Royal Ontario Museum, Bloor St. W. $200,000.

CONTRACTS AWARDED

Calif., Van Nuys—Bd. P. Wks. of Los Angeles, City Hall, Los Angeles, general contract city hall, southwest corner Sylvan St. and Sylmar Ave., to G. B. Foster, 1772 Sycamore Ave., Los Angeles, $82,145; plumbing, to F. D. Reed Plumbing Co., 1573 East 23rd St., Los Angeles, $24,987; concrete piling, to California Vibro Concrete Piling Co., $14,200; electrical work, to Culver City Electric Co., $5,788; structural steel, to McClintic-Marshall Corp. of California, 215 West 6th St., Los Angeles, $25,800; elevator, to Otis Elevator Co., 300 East 8th S., Los Angeles, $12,000. Grand total $164,920. Noted Mar. 22.

Conn., Waterford—Seaside Sanatorium, Tuberculosis Comn., Hartford, 1 story, 45 x 250 ft., brick tuberculosis infirmary unit, Magonk Point, to Pieretti Bros., Centerbrook, $219,500. Noted May 5.

Ill., Chicago—Wieboldt Realty Trust, 1637 Ogden Ave., 13 story, basement, L-shaped, 90 x 150 x 160 ft., rein.-con. apartment, wood pile found., 133 South Ashland St., to R. C. Wieboldt Co., 142 West Washington Blvd. $1,500,000. **Maturity probably in 1933 pending financing.**

Mo., St. Louis—Premium Realty & Investment Co., c/o S. R. Baer, c/o Stix, Baer & Fuller Dry Goods Co., 6th St. and Washington Ave., demolishing and clearing site for 2 (ultimately 15) story, basement, 100 x 152 ft., rein.-con., brick, stone store, office, Grand Blvd. and Olive St., to Excavating & Foundation Co., 621 Central National Bank Bldg. Noted Apr. 28.

N. J., Darlington—Fanning & Shaw, archts., 49 Ward St., Paterson, general contract 1 story, basement, brick, steel church and parochial school, to J. L. Bried, 96 West St., Englewood; plumbing and heating, to Standard Plumbing & Heating Co., 181 Ellisen St., Paterson; electrical work, to J. Coogan, Suffern, N. Y. Est. $150,000. Noted Apr. 21.

N. J., North Haledon—Lady Mary Help of Christians, Missionary Society of Salesian Sisters of Blessed Don Bosco, 41 Ward St., Paterson, general contract 3½ story, basement, brick, steel chapel, to C. Cona Building Co., 78 Zabriskie St., Haledon; carpentry, to V. Calondone, 341 19th St., Paterson. Est. $150,000. Noted Apr. 14.

N. Y., Brooklyn—Cameo Construction Co., H. Baum, pres., 1415 East 49th St., 2 story, brick apartment and private garages, Avenue K and 49th St., separate contracts. $150,000. I. Kallich, 375 Fulton St., archt.

Pa., Jenkentown—Boro, G. H. Benzon, pres., general contract 2 story, basement brick, steel, limestone school addition, West St. and High Ave., to H. Murphy, 330 Chestnut St., Glenside; plumbing, to Bulman Bros., 5th and Cumberland Sts., Phila.; heating, to R. J. Baldwin, 5908 Tulip St., Phila.; electric wiring, to H. J. Bateman, Willow Grove. Noted May 19.

Ont., Eastview—Convent of Les Filles de la Sagesse (Sisters of Wisdom), general contract 4 story, 41 x 99 ft. chapel and 50 x 112 ft. novitiate, brick, stone, steel, concrete, to E. Monette & Son, 61 Fairmont Ave., Ottawa; electrical work, to H. L. Allen, 411 Cooper St., Ottawa; ventilating, to J. Douglas, 250 Slater St., Ottawa; marble, tile and terrazzo, to Federal Tile & Mosaic Co., 107 Strathcona Ave., Ottawa; structural steel, to Dominion Bridge Co., 51 Sparks St., Ottawa; cut stone, to D. O. Laviolette, 166 Montcalm St., Hull, Que.; plumbing and heating, to Lagasse & Mantha, 365 St. Patrick St., Ottawa. Est. $150,000. Noted Apr. 21.

Ont., Toronto—Mercy Hospital for Incurables, 65 Power St., general contract 4 story, brick, concrete hospital addition, to Pigott Constr. Co., Pigott Bldg., Hamilton; miscellaneous, iron, stairways, etc., to McGregor-McIntyre Iron Wks. Ltd., 1139 Shaw St. Est. $150,000.

Commercial Buildings (Contained)

Ont., Windsor—Ontario Dominion Govt., Post Office Dpt., 10 story, basement, steel, stone, brick, rein.-con. post office and federal building, plain found., to Carter-Halls-Aldinger Co., Winnipeg, Man., $695,929. Noted Apr. 21.

Industrial Buildings

PROPOSED WORK

Ala., Montgomery—COOPERAGE PLANT—Montgomery Stave & Cooperage Co., reconstructing, re-equipping plant, North McDonough St. To exceed $74,000.

Calif., Long Beach—TRANSIT SHED—Long Beach Harbor Dpt., J. F. Collins, port mgr., soon takes bids 1 and 2 story, 80 x 470 ft., rein.-con., corrugated iron sides, electric wiring, sprinkler system, Berths 48, Pier 1. $75,000. Noted Apr. 1.

Calif., San Francisco—FACTORY—Q. R. S. Neon Corp., 306 7th St., plans by D. Riedy, Pacific Bldg., 1 story, concrete, 19th St. and Potrero Ave. $40,000.

Ga., Atlanta—REPAIR SHOP—City, City Hall, A. Walker, purch. agt., will lease additional space at airport for construction shop and overhaul plant by Eastern Air Transport, $40,000; also installing $15,000 worth machinery, etc.

Ill., Chicago—POWER STATION—See "Unclassified."

Ky., Lexington—WAREHOUSE—Munns Bros. Packing Co., Frankfort Pike, plans rebuilding warehouse, incl. refrigeration. $40,000.

Ky., Scottsville — WAREHOUSE — Farmers Loose Leaf Warehouse Co., tobacco storage warehouse, Glasgow Hy., near here. To exceed $50,000.

Me., Westbrook—PAPER STORAGE, etc.—S. D. Warren Co., repairing and reconstructing buildings, destroyed by fire. To exceed $100,000.

Minn., Winona—POWER PLANT—Froedtert Grain & Malting Co., South 38th and Grant Sts., Milwaukee, Wis., plans by F. J. Postel, 3444 North Hackett Ave., Milwaukee, Wis., power plant addition and re-equipment. $40,000.

Mass., Canton—WAREHOUSE, etc. — Plymouth Rubber Co., Canton, plans warehouse, reclaiming plant. $40,000. **Maturity indefinite.**

N. J., Jersey City—PRINTING PLANT—Owner, c/o H. D. Scudder, Jr., archt., 9 Clinton St., Newark, completed plans 3 story, basement, brick, steel addition. $40,000.

N. J., Kearny—COAL STORAGE, etc.—S. Smith Coal Co., 62 Johnston Ave., sketches 400 x 700 ft. coal storage, docks, bulk oil storage, dredging, Passaic River, at Passaic Ave. To exceed $40,000.

N. J., Madison—DISTRIBUTING PLANT—Castle Ice Cream Co., 53 East Blackwell St., Dover, bids late in summer, general contract 2 story, basement, brick, steel, Waverly Pl. $40,000. L. E. Jallade, 15 East 47th St., New York, archt. Noted May 12.

N. J., North Bergen—ABATTOIR, etc.—C. Miller & Co., 42 Secaucus Rd., repairing and reconstructing abattoir, slaughter and meat packing plant. $40,000. Architect not appointed.

N. J., Paterson—FACTORY—Harris Bros. Silk Co., 202 Union Ave., plans by Lee & Hewitt, 152 Market St., 1 and 2 story, basement, brick, terra cotta, steel addition. $40,000.

N. J., Piscataway—CEMENT PLANT—Edison Cement Co., 261 5th Ave., New York, altering potash plant into cement plant. To exceed $40,000 with equipment. **Maturity about January.**

N. J., Plainfield — GARAGE — C. C. Bell, archt., 8 South Ave., Cranford, bids in July, general contract 1 story, basement, brick, steel, for Owner, c/o architect. $40,000. Noted May 12.

N. J., Union City—DISTRIBUTION PLANT, etc.—Sheffield Farms, Inc., 524 West 57th St., New York, bids in July on revised plans 2 story, basement, brick, steel, distribution plant, office, stable, Hudson Blvd. $40,000. Former bids rejected. G. Willaredt, 411 23rd St., West New York, archt. Noted Apr. 21.

N. J., Union City—STORAGE—Union Warehouse Corp., 511 23rd St., altering 3 story, 200 x 341 ft. silk mill into storage and industrial plant, Bergenline Ave., 23rd and 22nd and West Sts. To exceed $40,000.

N. Y., Corona—REPAIR SHOP and GARAGE, etc.—F. Carlozzi, 148-63 42nd Ave., 1 story, 16 x 20 ft., 28 x 45 ft., 13 x 17 ft. and 40 x 60 ft. repair shop and garage, etc., Roosevelt Ave. and 117th St. Private plans.

N. Y., Corona—AUTO and REPAIR—Land Grove Realty Corp., 270 Bway., New York, plans by W. V. McDevit, 185 Forest Ave., St. George, 1 story, 25 x 65 ft. greasing and auto service and repair building, Roosevelt Ave. and 69th St.

N. Y., Corona — GARAGE SERVICE and AUTO DISPLAY — E. Baylies, c/o J. Baker, archt., 1009 Jackson Ave., Long Island City, 121 x 183 ft. brick, concrete, Northern Blvd. and 117th St. $100,000.

N. Y., Ellingville—GAS HOLDER—New York & Richmond Gas Co., St. George, plans completed high pressure gas holder and distributing lines. To exceed $50,000. **Maturity after Jan. 1.**

N. Y., Goshen—GARAGE and SERVICE—H. L. McBride Trucking Co., West Main St., reconstructing garage and service building. To exceed $50,000. **Maturity indefinite.**

N. Y., Jamaica—MARKET—D. Kaufer, 113-10 Sutphin Blvd., plans by L. Dananchor, 149-14 Jamaica Ave., 1 story, 40 x 100 ft. brick, concrete, market, incl. refrigeration, Sutphin Blvd. and 119th Ave.

N. Y., Kew Gardens—STORAGE, etc.—Litz Roy Development Co., 521 5th Ave., New York, plans by Slee & Bryson, 16 Court St., Brooklyn, 2 story, brick, storage, store, and apartment, Lefferts and Austin Sts. $50,000.

N. Y., Long Island City—GARAGE—Chalrin Realty Corp., 163-18 Jamaica Ave., Jamaica, plans by M. Klein, 65 Court St., Brooklyn, 100 x 194 ft. service garage, 44th St. and 25th Ave. $60,000.

N. Y., New York—SERVICE GARAGE—C. H. Beakes Dairy, 617 11th Ave., plans by V. Mayper, 110 West 40th St., 3 story, 206 East 12th St. To exceed $50,000.

N. Y., New York—SERVICE STATION and GARAGE—Corporation, c/o R. Calder, 202 West 76th St., plans by M. Thomas Ketz, 51 Chambers St., 1 story, 27 x 52 ft. brick, concrete, Intervale Ave. and 169th St.

N. Y., New York—SERVICE GARAGE—J. Garufi, 2236 Seward Ave., plans by M. W. Del Gaudio, 545 5th Ave., 1 story, 50 x 100 ft., brick, concrete, Homer and Havemeyer Aves.

N. Y., New York—STORAGE—C. M. O'Connor, 2865 University Ave., 2 story, 25 x 40 ft. storage, with equiment, Riverdale Ave. and 236th St. Private plans.

N. Y., New York—BAKERY—A. Shulman, 305 Bway., plans by M. Siegel, 1775 Bway., 2 story, 100 x 100 ft., Brady and White Plains Aves. $60,000.

N. Y., New York—SERVICE GARAGE—H. W. Thedford, 270 Riverside Dr., bids late in August, general and separate contracts altering from 2 to 4 story service garage. C. Schaefer, 332 East 149th St., archt. Noted May 12.

N. C., Dunn — STORAGE and SERVICE GARAGE—J. W. Thornton Garage, storage and service garage. To exceed $80,000. **Maturity later.**

O., Van Wert—PACKING PLANT—J. Stoops, c/o Stoops Packing Co., Van Wert, rebuilding packing plant, recently destroyed by fire. $100,000.

O., Vermilion—FACTORY—Wakefield Brass Co., 1 story, brick, steel, concrete wing, also plans altering present plant. $40,000 to $50,000. Private plans.

Pa., Hershey—WAREHOUSE—Hershey Chocolate Co. soon take bids reinforcing steel and other materials for rein.-con. warehouse. Total est. exceeds $150,000.

Ore., Hood River—PLANT—Hood River Fruit Juice Co., P. C. Peterson, Route 4, Box 242, plans plant for removing acetic acid or alcohol from cider and fruit juices without impairing the flavor. $50,000.

Tenn., Memphis—COTTON STORAGE WAREHOUSE—McCalliem & Robinson, 401 East Mallory St., replacing warehouse destroyed by fire. To exceed $200,000. **Maturity indefinite.**

Tex., Amarillo — CARBON MONOXIDE PLANT—J. S. Belt Helium Interests, plans by G. F. Preston, 813 Oliver Eagle Bldg., 1 story, 50 x 50 ft., brick, rein.-con., steel, plain found.

Ont., Windsor — PHARMACEUTICAL PRODUCTS PLANT—A. S. Boyle & Co., c/o Pennington & Boyde, archts., Security Bldg., soon takes bids pharmaceutical products plant, 3 story, basement, 60 x 140 ft., with 2 story, basement, 25 x 70 ft. wing, and 1 story, boiler plant, concrete brick, steel, College and Campbell Aves. $150,000.

Alaska, Taku Harbor—FISH CANNERY—Libby, McNeil & Libby, Union Stock Yards, Chicago, Ill., plans repairing and re-equipping fish cannery. To exceed $100,000. **Maturity indefinite.**

BIDS ASKED

Calif. San Francisco—SERVICE—Goodyear Tire & Rubber Co., 6701 South Central Ave., Los Angeles, taking bids 2 story, rein.-con., 11th and Mission Sts. $75,000 or more.

Conn., Greenwich—GARAGE—Town, Superintendent of Hys., taking bids 1 and 2 story, 80 x 80 ft., steel, tile municipal service garage, Mianus St. $40,000. C. W. Hubbard, 115 Greenwich Ave., archt. Noted Apr. 7.

Indiana—GARAGES—June 1, by State Hy. Comn., Indianapolis, 3 highway garages, one at Anderson, one at Bluffton, other at Auburn. J. J. Brown, dir.

Minn., Minneapolis—FACTORY, etc.—General Electric Realty Co., 210 Bway., New York, bids Oct. 1 or later, 1 story, 210 x 220 ft. branch plant, shop distribution. $400,000. B. Anthony, c/o General Electric Co., River Rd., Schenectady, N. Y., archt. Noted May 5.

Mo., Hannibal—GARAGE, etc.—May 31, by State Hy. Comn., Jefferson City, 2 story, basement, concrete, brick garage and division office. $60,000. T. H. Cutler, ch. engr.

Neb., St. Edwards—POWER PLANT—May 31, by H. W. Rich, city clk., general contract 1 story, 40 x 60 ft. power plant, electric distribution system, switchboard and engine. $56,806. C. V. Barnhill, 416 Federal Trust Bldg., Lincoln, engr.

N. J., Edgewater—CLEANING and DYEING PLANT — Lucht & Anderson, archts., 432 Palisade Ave., Cliffside, taking bids 1 story, basement, brick, steel, 1040 River Rd., for C. Grisen, River Rd. $40,000.

N. J., Fairview—AUTO SERVICE GARAGE—See "Contracts Awarded."

N. J., Newark—GARAGE—Owner, c/o A. Peter, archt., 207 Market St., bids May 23, general and separate contracts 2 story, basement, brick, steel, Avon Ave. $40,000. Noted May 12.

N. Y., Elmira—SHOP—June 23, by Commissioner Correction, State Office Bldg., Albany, shop building at Elmira Reformatory.

N. Y., New York—REPAIR SHOP, etc.—J. Hopkins, 199 Franklin St., taking bids (selected list bidders) and will award contract in June, repair shop and brake testing. E. Guterman, 164 Montague St., Brooklyn, archt.

N. Y., New York—STORAGE, etc.—R. Candella, archt., 578 Madison Ave., taking bids on separate contracts 4 story, 75 x 100 ft. storage, office, 109 East 106th St., for P. Gandolfo, 578 Madison Ave. $100,000 or more. Noted May 12.

CONTRACTS AWARDED

Calif., Sacramento—PUBLISHING PLANT—Sacramento Bee ,7th St., 6 story concrete annex, to F. Maloney, 3172 T St., $45,000.

Calif., San Francisco—FACTORY—Q. R. S. Neon Sign Corp., 306 7th St., 1 story, rein.-con., to J. D. Hannah, 351 Kearny St., $40,000. Noted May 19.

Colo., Palisade—HYDRO-ELECTRIC PLANT—Pub. Serv. Co. of Colorado, erecting surface buildings to house hydro-electric plant, to H. Shores, Grand Junction, $215,000.

Ind., Fort Wayne—BOILER ROOM—S. S. Snyder, secy., City Light & Power Co, new brick, steel boiler room, Clinton St., to M. Irmscher & Sons, 113 1st Natl. Bank Bldg., $123,588. Noted Apr. 28.

Ind., Hammond—SOAP FACTORY—Stone & Webster Engr. Corp., contractors, 49 Federal St., Boston, Mass., general contract 4 story, basement, rein.-con., brick to F. C. Cowley, 5231 Hohman St., for Lever Bros., Hammond. Est. $500,000. Noted Mar. 25.

Mass., Amherst—SERVICE—Amherst College, Treasurer's Office, 2 story, 40 x 85 ft., brick, concrete, to Fred T. Ley & Co., 1215 Main St., Springfield. Est. $40,000. Noted May 19.

Mass., Springfield—SERVICE—H. E. Puggioli, 27 Border St., altering 3 story, 60 x 108 ft., brick automobile service and sales station, to Alessi Bros., 35 Memorial Ave., West Springfield. Est. $40,000. Noted Apr. 7.

Mich., East Jordan — CANNING PLANT — Reed Murdock & Co., East Jordan, 2 story, 60 x 225 ft., brick, rein.-con. addition, plain found., to Kit Carson, East Jordan. Est. $50,000.

N. J., Fairview—AUTO SERVICE GARAGE—J. Miccio, Bergen Blvd., 1 story, basement, brick, steel, Bergen Blvd., separate contracts. $40,000. Lucht & Anderson 432 Palisade Ave., Cliffside, archts.

N. J., Hoboken—TERMINAL—Seatrain Lines, Inc., G. M. Bush, pres., c/o Hoboken Mfg. Railroad Co., foot 5th St., steel and structural changes for terminal to facilitate loading of trains, to Amer. Bridge Co., 30 Church St., New York, 125 ton car-handling crane, to Shepard-Niles Crane & Hoist Co., 121 North Broad St., Phila., Pa. and 30 Church St., New York. To exceed $40,000. Noted May 12.

N. J., Jersey City—FUEL OIL STORAGE—Pub. Serv. Elecrtic & Gas Co., 80 Park Pl., Newark, general contract 1 story, brick, steel, north of Van Kueren Ave., to United Engineers & Constructors, Inc., 80 Park Pl., Newark. Est. $40,000.

N. J., South Amboy—MACHINE SHOP, etc.—Titanium Pigment Co., W. S. Meredith, in charge, 60 John St., New York, general contract 2 story, basement machine shop, warehouse, 2 manufacturing buildings, offices and welfare buildings on 88 acre site, east of South Amboy and Victory Bridge, to Wigton-Abbott Corp., 143 Liberty St., New York. Est. $2,000,000. Contractor takes bids about June 1 on separate contracts. Noted Apr. 7.

N. Y., New York—STORAGE—Lyman G. Realty Corp., c/o Bloomingdales, Lexington Ave. and 59th St., New York, 1 story, 80 x 80 ft. storage, to LaSalle Constr. Corp., 32 LaSalle St., Noted May 12.

N. Y., New York — WAREHOUSE — S. B. Silverman, 215 Canal St., 2 story, 37 x 75 ft. storage and loft, to S. Champain, c/o owner. Noted May 12.

O., East Liverpool—TUNNEL KILNS—C. C. Thompson Pottery Co., two 60 x 200 ft. Dressler type tunnel kilns, 166 ft. long, to replace 9 upright glost kilns, to Swindell-Dressler Corp., Leonia, N. J., est. $75,000; altering and constructing factory addition, to Potters Lumber Co., East Liverpool.

S. C., Anderson — MILL — Anderson Cotton Mills, altering mill buildings, incl. new roofs and floor, to Townsend Lumber Co., Anderson. Est. $65,000.

Ont., Kincardine—KNITTING PLANT—Circle-Bar Knitting Co., Kincardine, foundations for 3 story addition, to Rainey Bros., Kincardine; structural steel, to Desher Steel Constr. Co. Ltd., 80 Commissioners St., Toronto; reinforcing steel, to Truscon Steel Co. of Canada, Federal Bldg., Toronto; superstructure, to Henry & Ross, Kincardine. Est. $50,000.

See proposal advertising on page 48

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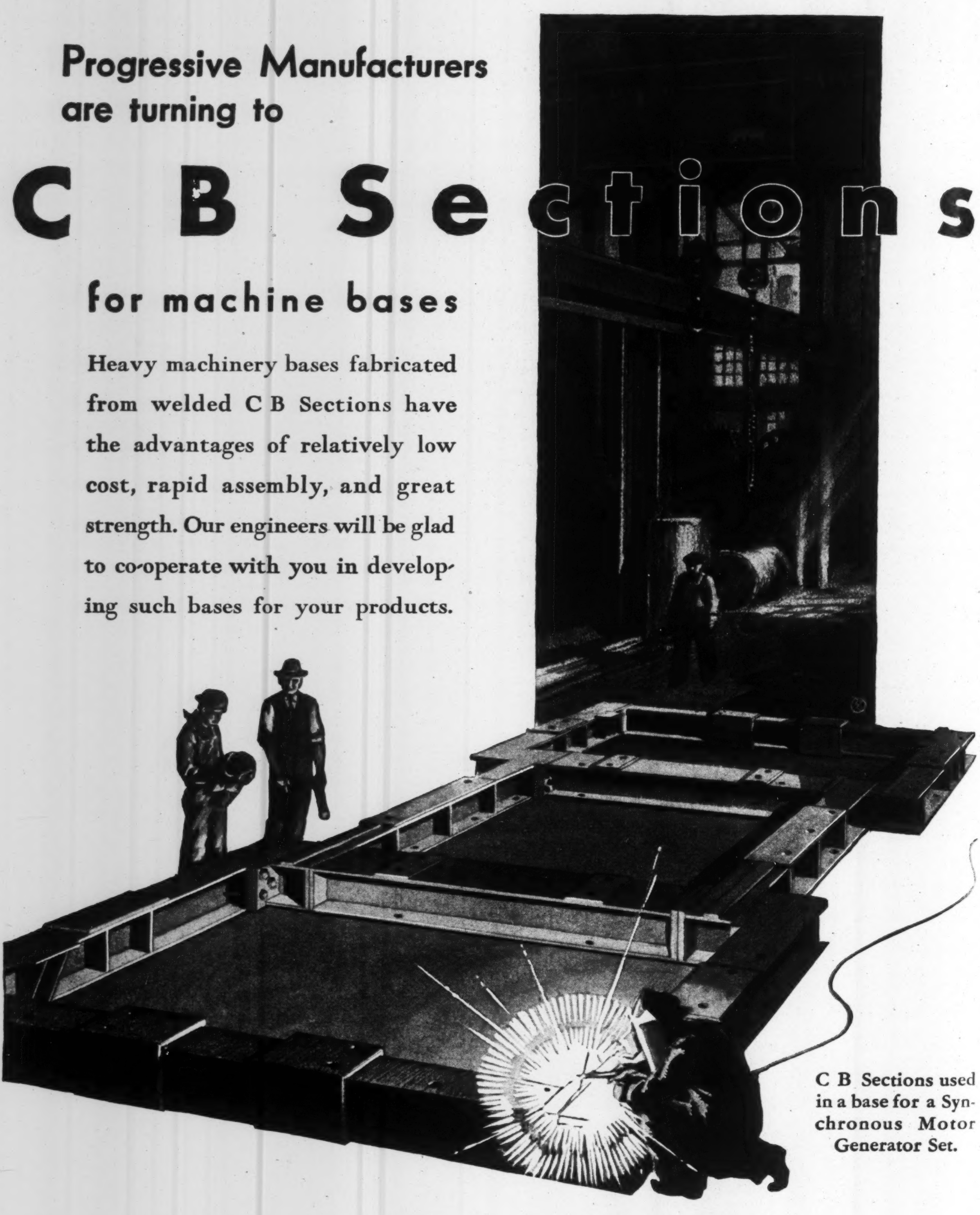

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CONSTRUCTION NEWS

SECTION OF ENGINEERING NEWS-RECORD—JUNE 2, 1932

WATERWORKS

PROPOSED WORK

Calif., Los Banos—City making specifications additional filters at municipal waterworks plant of 500,000 gal. capacity each. W. E. Bedesen, Shaffer Bldg., Merced, engr.

Ind., Cloverdale—City plans in progress waterworks. $15,000.

Kan., Eldorado—City, final plans in progress water filter system. $50,000. C. A. Haskins & Co., Finance Bldg., Kansas City, Mo., engrs.

Mass., Boston—City plans in progress reinforcing water service, Elm Hill Sect., Roxbury and Dorchester, 48 in. main connecting with Metropolitan Dist. Comn. at Arborway. $400,000. J. A. Rourke, comr. Dpt. P. Wks.

Mass., North Reading—Commonwealth of Massachusetts, Dpt. P. Health, filter beds at State Sanatorium. $17,000.

Neb., Omaha — Metropolitan Utilities new settling basin and broad wiers. $20,000. T. A. Liesen, 18th and Harney St., genl. mgr.

O., Akron—Summit Co., Sanitary Impvt. 45, water supply incl. 8 to 10 mi. distribution mains, for community of Stow, northeast of here, improvement in preliminary stage, not decided whether supply will be secured from City or a local well field. $130,000.

O., Cincinnati—See "Sewers."

O., Elyria—Lorain Co., D. D. Andrus, deputy co. engr., water improvement in No. 2 in Lakeview Dist., plans completed $30,000 Vincent Dist. water improvement, general plan made, $50,000; Griswold Dist. water improvement, $10,000; no plans made.

BIDS ASKED

Wash., Cathlamet—See "Contracts Awarded."

CONTRACTS AWARDED

N. J., Paterson—Passaic Valley Water Comn., 156 Ellison St., furnishing, installing 15,700 ft. 45 in. steel plate pipe in Garfield and Lodi, to T. Burke Co., 1001 Yaux Rd., Orange, $187,718.

N. Y., Long Island City—J. J. Dietz, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, building for Flushing iron removal filter plant at Fresh Meadow Lane and Underhill Ave., to M. C. Seelig Co., Inc., 153 Pierrepont St., Brooklyn, $27,818. Noted Feb. 25.

Pa., Lititz — Boro., E. E. Habecker, clk., Council Chamber, furnishing, erecting steel water tank (to exceed 100 tons), to Chicago Bridge & Iron Co., 37 West Van Buren St., Chicago, Ill. Noted May 26.

Wash., Cathlamet—City Council, dam at source present water system at junction of Abe and Camp Creeks, day labor. $3,200. Former bids rejected. H. Goodrich, city engr.

SEWERS

PROPOSED WORK

Ill., Monmouth—City completed plans activated sludge type sewage disposal plant, incl. bar screen, grit chamber, mechanical aeration, chlorification and digestion tanks, service building, pump gallery, digestion tanks, 18,000 cu.yd. gravel, 14,000 cu.yd. excav., 3 sludge pumps, 2 air compressors, flow recording mechanism, mechanical agitators, sein.-con. diversion manhole and headwall, 635 lin.ft. 8- to 24-in. vitr. tile pipe, 715 lin.ft. 4- to 8-in. Class A c.i. pipe. $100,000. Kinsey Eng. Co., Pekin, engr.

Ill., Rock Island—City, 700-800 g.p.m. pump, pumphouse and pipe to connect to present trunk, southeast sect. of city. $25,000. W. Treichler, city Hall, engr.

Ind., Connersville—City Council storm sewer. $25,460.

Mass., Palmer — Commonwealth of Massachusetts, Boston, 2 sewer beds at Monson State Hospital. $25,000.

N. Y., New York—Dpt. Sanitation, Municipal Bldg., bids in October foundations for blower house and probably for superstructure. Bids soon thereafter blower house, equipment sewage pumps, etc., fertilizer and storage building. $2,000,000. Total $10,000,000. **Maturity later.** Noted Feb. 11.

O., Cincinnati—Hamilton Co., J. S. Rafferty, sanitary engr., Millcreek Interceptor Sewer Extension, will soon take bids, but sewer will be paid for from county funds and supervised by co. engr., Project should go ahead very soon now, est. $490,000; Muddy Creek Interceptor Sewer, ready for hearings very soon, 5 mi. 24- to 45-in. sewer, will serve large built-up section of Western Cincinnati and city of Cheviot, est. $325,000; Bloody Run Interceptor Sewer, to serve comparatively large area, being extensively developed lying in Cincinnati, Norwood and St. Bernard, eliminating at least 3 pumping stations and several temporary disposal plants, est. $200,000; disposal plant, addition to existing plant, probably consist of trickling filters and secondary sedimentation tanks to relieve and overloaded intermittent sand filtration plant, est. $50,000—probably 2 relief sewer projects est. $10,000 each; probably water distribution projects, est. $30,000.

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BIDS ASKED

Calif., Los Angeles—See "Streets and Roads."

Ind., Fort Wayne—June 7, by City, Bd. Wks., Main Sewer Resolution No. 69, 14 and 18 in. sewer pipe. $100,000. S. S. Snyder, Fort Wayne, secy.

Mo., St. Louis—June 21, by Bd. P. Serv., City Hall, Sect. A-6, Maline Creek Sewer, $22,520; Cold Water Creek Diversion Canal at Lambert-St. Louis Municipal Airport at Bridgeton, $6,000. W. W. Horner, city engr.

N. Y., Long Island City—June 6, by G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., sewers in Queens Blvd., North Hempstead Turnpike, 58th Rd., 66th, 57th, 58th, 60th Aves., 189th, 190th, 191st, 97th Saunders, 133rd, 136th, and Main Sts.

N. Y., New York—June 9, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in White Plains Rd., Pitman, Fish and Compton Aves.

N. Y., Yonkers—June 8, by Westchester Co. Sanitary Sewer Comn., White Plains, constructing link between North Yonkers sterilization plant at Saunders Dock and North Yonkers tunnel.

CONTRACTS AWARDED

N. Y., New York—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in O'Brien Ave., to C. Turiano Contg. Co., 2913 Coddington Ave., $52,754; Gun Hill Rd., to Feroni & Gillespie, 134 East 177th St., $3,734; Mulford and Muliner Aves., to J. V. Timoney Constr. Co., 256 Bway., $2,101 and $1,216 respectively. Grand total $59,805. Noted Apr. 21.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, sewers in Ridgecrest Ave., to Substructures Corp., 1473 Richmond Terrace, Port Richmond, $9,778. Noted Apr. 7.

Ore., Portland—City, 1,960 ft. sewer in Burgard and Bruce Sts., to Parker Schram, Couch Bldg., $18,848. Est. $28,523.

Wis., Kohler—City improving and extending sewerage system, constructing sewage disposal plant, to H. M. Vowinkel Constr. Co., Sheboygan, Item B $978, Item H $426; to Baarendse Co., Sheboygan, Item C $4,387, Item E $2,049, Item F $350, Item G $2,248, Item J $160, all foregoing labor only; to G. H. Fehr, Inc., 1253 29th Ave., Milwaukee, Item D $19,480, incl. labor and material; to Neenah Fdry. Co., Neenah, manhole covers; to J. J. Koepsell Co., Sheboygan, steel pipe; to Falls Lime & Stone Co., 18 in. vitr. pipe; to What Cheer Clay Products Co., What Cheer, Ia., 21 in. vitr. pipe; to Roth Building Supply Co., Sheboygan, 8 in. vitr. pipe.

WASTE DISPOSAL

PROPOSED WORK

N. Y., Brooklyn—Dpt. Sanitation, Municipal Bldg., New York, plans treatment tanks and pumping station unit (later to be incorporated as part of extensive project), at Coney Island. To exceed $1,000,000. L. C. L. Smith, engr.

BIDS ASKED

Md., Baltimore—June 15, by Bd. Awards, E. H. Beer, city register, City Hall, incinerating plant, etc. D. L. Brozier, ch. engr.; adv. E. N.-R. June 2.

Ont., Toronto—June 14, by W. J. Stewart, mayor, City Hall, installing, constructing furnaces, flues, chimneys, appurtenances in connection with Symes Rd. incinerator. Bids later for brick, concrete, steel building, concrete found. S. W. Dies, street comr. Total est. $620,000. Noted Apr. 7.

BRIDGES

PROPOSED WORK

California—State Hy. Comn., Sacramento, replacing 3-span steel truss bridge with 440 ft. 10 span steel girder springer spans on rein.-con. piles, 34 ft. roadway over Paradise Cut between Tracy and **Stockton, San Joaquin** Co.—164 ft. rein.-con. bridge of 3 stone faced arches, 34 ft. roadway, 2 sidewalks over Wildcat Creek at The Highlands, Monterey Co.—reconsturcting 1,218 ft. bridge, incl. widening two 103 ft. arch spans with twenty-three 44 ft. rein.-con. steel girder spans, 24 ft. roadway over Stanislaus River at Ripon, Stanislaus and San Joaquin Counties. C. H. Purcell, hy. engr.

Calif., Sacramento—Bd. Comrs. Sacramento Co. soon lets contract bridge over American River at Fairoaks Blvd. $200,000. C. D. Deterding, Jr., co. engr. Noted Aug. 27.

Calif., San Bernardino—San Bernardino Co., 320 ft. steel, concrete bridge over Santa Ana River at North Orange Ave. H. L. Way, San Bernardino, co. surv.

Ill., Springfield—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Indiana—State Hy. Comn., Indianapolis, 35 bridges in various counties. $500,000. J. J. Brown, dir.

Texas—State and Potter Co., surveys replacing present 19 year old bridge with rein.-con., steel bridge over Canadian River, Hy. 5. $80,000. Address County Engineer, Amarillo.

Ont., Paris—Town, 100 ft. concrete or steel bridge over River Nith. $30,000. D. R. Brockbank, Paris, engr.

Ont., Toronto—City, probably steel or concrete bridge on piles over lagoon between Wards and Sunfish Islands. $25,000. R. C. Harris, City Hall, engr.

BIDS ASKED

Illinois—June 8, by State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, rein.-con. substructure, nine 60 ft. steel I-beam approach spans, Route 70-A, Sect. 109-B; one 362 ft. and three 200 ft. span steel superstructure, Route 109-C, La Salle Co. F. T. Sheets, ch. hy. engr.

Illinois—June 15, by State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, bridges in McHenry, Winnebago, Henry and Henderson Counties. F. T. Sheets, ch. hy. engr.

Indiana—June 14, by State Hy. Comn., Indianapolis, 1 bridge near Hartford, Blackford Co.—1 bridge near Washington and 3 bridges near Plainville, Daviess Co.—1 bridge near Blountsville, Henry Co.—3 bridges near Seymour, Jackson Co.—5 bridges near Wheatfield, Jasper Co.—3 bridges near Bedford, Lawrence Co.—1 bridge near Markleville, Madison Co.—1 bridge near Broad Ripple, Marion Co.—3 bridges near Spencer, Owen Co.—1 bridge on U. S. Rd. 41, Parke Co.—1 bridge Grandview, 1 bridge near Maxwell, 2 bridges near Rockport, all Spencer Co.—1 bridge near North Judson, Starke Co.—1 bridge near Webster, 2 bridges near Economy and 3 bridges near Williamsburg, all Wayne Co. J. J. Brown, dir.

Ind., Columbia City—June 7, by Bd. Comrs., Whitley Co., Bridge 32-2, through plate girder or three-pin connected or riveted truss bridge, on old abutments, span, not less than 93 ft. over Eel River; Bridge 32-3, rein.-con. slab, over Thorncreek. To exceed $35,000. E. Cotterly, Columbia City, aud.

Ind., Danville—June 6, by Bd. Comrs. Hendricks Co., Clements Bridge in Brown Twp.—Holtz Bridge in Lincoln Twp.—Hendricks Bridge in Middle Twp.—Dickerson and Chatham Bridges, both in Marion Twp.—Phillips Bridge in Liberty Twp.—Maybe Bridge in Clay Twp.—Short Bridge in Liberty Twp.—Hadley and Carrier Bridges in Center Twp.—California Bridge in North Salem—Kurtz Bridge in Eel River Twp. $25,000. C. E. Shields, Danville, aud.

Ind., Tipton—June 6, by Bd. Comrs. Tipton Co., Nash Bridge, southwest of here and Wright Bridge, southeast of here. $26,000. E. Trimble, Tipton, aud.

Kansas—See "Streets and Roads."

Missouri—June 7, by State Hy. Bd., Jefferson City, bridges on Adair, Benton, Camden, Carroll, Clay, Cole, Crawford, Dunklin, Gentry

See proposal advertising on page 58

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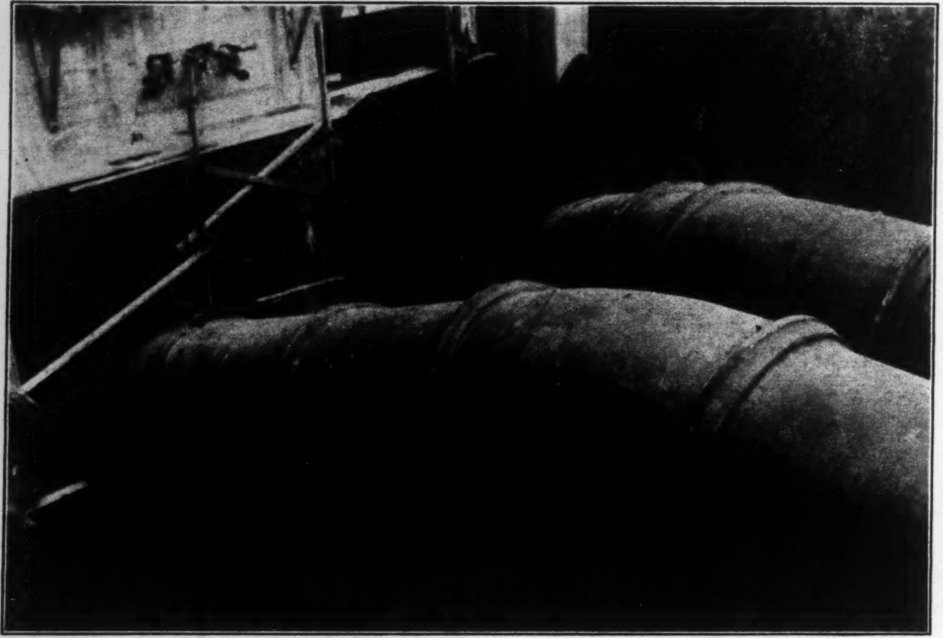

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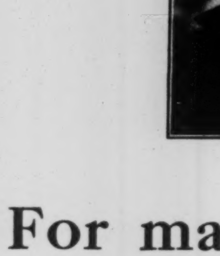
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No Caulking

Bridges (Continued)

Iron, Jasper, Johnson, Laclede, Marion, McDonald, Miller, New Madrid, Perry, Polk, Ray, Stoddard, Sullivan and Wayne Counties. T. H. Cutler, ch. engr.

O., Cleveland—July 16, by Bd. Comrs. Cuyahoga Co., 2 rein.-con. piers for Main Ave. Bridge. $250,000. Wilbur Watson & Associates, 4614 Prospect Ave., engrs. Noted May 12.

Texas—June 10, by G. Gilchrist, state hy. engr., Austin, bridges, culverts in Coke, Pecos, Crockett, Bell, McLennan, Concho, Menard, and Hemphill Counties. Total est. $220,000.

CONTRACTS AWARDED

Calif., Gorman — Bd. Supervs. Los Angeles Co., Los Angeles, constructing 3 bridges at points 4 and 8 mi. south of here, to Dimmitt & Taylor, 815 East 59th St., Los Angeles, $47,458. State furnishes 3 plate girder spans.

Ill., Carrollton—See "Streets and Roads."

Indiana—State Hy. Comn., Indianapolis, 1 span 72 ft. and 1 span 60 ft. steel truss bridges, Rd. 32, Contr. 491 Hamilton Co., to Vincennes Bridge Co., Vincennes, $16,982 est. $24,743; two 16 ft. and one 12 ft. rein.-con. slab bridges, Rd. 14, Contr. 487, Pulaski Co., to Continental Eng. Co., South Bend, $9,754 est. $15,007. Noted Apr. 21.

Iowa—State Hy. Comn. Ames, 6 circular culverts in Adair Co., to C. R. Yegge, Boone, $982—26 culverts, extensions, raising, widening one I-beam bridge and two deck girder bridges, Boone Co. and constructing 4 culverts, extensions, Webster Co., to C. J. Kramme Co., Ft. Dodge, $9,700 and $815 respectively—five 21 x 22 ft. span wooden bridge with concrete floor over railroad, Cass Co., to C. E. Smith, Lincoln, Neb., $4,560—10 culverts, extensions, Cerro Gordo Co., to C. Jensen, Thompson, $1,950—28 x 24 ft. I-beam bridge, 23 culverts, extensions, Dubuque Co., to J. F. Lee Paving Co., Dubuque, $6,500. Grand total $24,507.

La., Harvey—E. F. Mitchell, ch. engr. Texas & Pacific R.R. Co., Dallas, Tex., at office H. C. Lytell, engr., 1184 Annunciation St., New Orleans, bridge foundation in connection with U. S. Engineering track raising work, involving 7,200 cu.yd. excav., 2,368 cu.yd. concrete, 45,200 lin.ft. foundation piles, 79,570 lb. reinforcing steel, to T. H. Brockman, Canal Bank Bldg., New Orleans, $71,289. Noted May 5.

Michigan—W. J. Kingscott, div. engr., Grand Rapids, MBr. 1 of 8-14-11, 75 ft. span, 2 rein.-con. counterfort type abutments, steel deck girder, Contr. 2 to Lackawanna Steel Corp., Walden Ave., Buffalo, N. Y., $6,966; Contr. 3, to Willits Bros., Bay City, $22,894. Noted Apr. 21.

N. J., Freehold—Monmouth Co., bridge over Shrewsbury River, to Seeds & Derham, 25 Maplewood St., Phila., Pa. $643,000. Noted May 12.

Oregon—State Hy. Comn., Salem, rein.-con. bridge over Santian River, to Clackamas Constr. Co., Portland, and Liesch & Tofte, Salem, $102,660. Noted May 12.

Pa., Norristown—Montgomery Co., W. C. Irwin, controller, Court House, Bridge 44, rein.-con., steel, over Pennypack Creek, Abington Twp., Walnut Std., to L. F. Driscoll, 5036 Copley Rd., Phila., $21,224. Est. $27,000.

Rhode Island — State, Bd. P. Roads, Providence, substructure Miantonomi Bridge, Richmond, to A. I. Savin, 408 Main St., Hartford, Conn., $10,986 — superstructure for same, to Boston Bridge Wks., Inc., Binney St., Cambridge, Mass., $44,454 — widening Pawtuxet Bridge, Cranston-Warwick, to Lavigne Constr. Co., 29 Shippee Ave., West Warwick, $29,879. Grand total $85,319.

Vermont—State Hy. Dpt., Montpelier, concrete hy. bridge, Concord, to A. I. Savin Constr. Co., 1179 Main St., Hartford, Conn., $11,911; concrete bridge Pittsfield, to T. J. Harvey, East Rd., Adams, $5,545. Noted May 5.

Virginia—State Hy. Dpt., Richmond, 115 ft. steel beam span bridge, 24 ft. roadway over Bennetts Creek, Nansemond Co., to Roanoke Iron & Bridge Wks., Inc., Roanoke, $10,000—174 ft. bridge, 24 ft. roadway over Little Nottaway River, Nottaway Co., to R. W. Moore & Co., Staunton, $9,008—254 ft. steel truss and rein.-con. bridge, 24 ft. roadway over Nottaway River, Lunenburg and Nottaway Counties, to Perkins-Barnes Constr. Co., Inc., Blackstone, $14,695—five 35 ft. and three 32½ ft. span steel beam bridge, 24 ft. roadway over Bennetts Creek, Nansemond Co., to Carpenter & Petrie, Inc., Norfolk, $30,658. Grand total, $64,361. Noted May 12 under "Streets and Roads."

Virginia—See "Streets and Roads."

STREETS AND ROADS

BIDS ASKED

California—June 8, by State Hy. Comn., Sacramento, fuel oil treating 23.2 mi. shoulders on road between Santa Ana River Bridge and Ontario between Corona and Orange Co. Line, Riverside and San Bernardino Counties—22.4 mi. road between Junction of Routes 31 and 59 near Cajon Summit and Los Angeles Co. line, San Bernardino Co.—grading, concrete paving 1.7 mi. road between Swingle and Yolo Causeway, Yolo Co.

Calif., Los Angeles—June 8, by Bd. P. Wks., City Hall, improving Motor Ave. from Manning Ave. to National Blvd., incl. grading, curbing, guttering, sewers, 2 stairways, 100 lin.ft. wooden guard rail, ornamental lighting system, 96,549 sq.ft. 6 in. concrete paving; 5,891 sq.ft. 4 in. asphaltic wearing surface. To exceed $25,000. J. J. Jessup, City Hall, engr.

Colorado—June 7, by State Hy. Dpt., Denver, c/o C. D. Vail, engr., improving 11.2 mi. U. S. Hy. 50 between La Junta and Hadley, Otero Co.

Connecticut—June 6, by J. A. Macdonald, state hy. comr., Hartford, rein.-con. paving 10,637 ft. hy. Farmington—2½ in. bituminous macadam on 7 in. trap rock base paving 380 ft. Westport—2 course rolled barites paving 8,490 ft. Cheshire—loose gravel surfacing 15,630 ft. Cornwall—rolled bank run gravel surfacing 10,400 ft., and loose gravel surfacing 4,750 ft. Coventry—rolled bank run gravel surfacing 7,112 ft. Hebron—9,531 ft. Lebanon—trap rock waterbound macadam paving 5,723 ft. Meriden; adv. E. N.-R. June 2.

Florida—June 8, by State Roads Dpt., Tallahassee, B. M. Duncan, state hy. engr., clearing, grading, bridging, concrete paving Projects 76-C and 76-D, Road 5, Hillsborough Co.—bridging Project 1013, Rd. 25, Palm Beach Co.—Ocala lime rock base and surfacing 10.4 mi. Project 677-C, Rd. 13, Levy Co.—furnishing 305,080 gal. liquid asphalt for mixed in place sand asphalt surfacing, f.o.b. barges alongside Project 702, Rd. 10, Franklin Co.—264,000 gal. f.o.b. cars, Sherman, Project 912, Rd. 85, Okeechobee Co.—710,000 gal. f.o.b. cars, Elcid, Project 913-Rd. 85, Martin Co.

Illinois—June 15, by State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, concrete, bituminous filled brick on concrete, or bituminous concrete (fine or coarse graded aggregate type) on concrete surfacing 0.65 mi. road in Vermilion Co.—0.12 mi. Winnebago Co.—0.52 mi. Knox Co.—0.1 mi. Franklin Co.—2.31 mi. Cook Co.—widening to 20 ft. and 2½ in. brick resurfacing 15.48 mi. Sangamon Co.—grading 9.25 mi. Henry Co.—6.2 mi. Warren and Henderson Counties—8.59 mi. Henderson Co. F. T. Sheets, ch. hy. engr.

Ill., Monticello—June 7, by Bd. Supervs. Platt Co., macadam surfacing 0.6614 mi. Sect. 2-M—concrete surfacing 2.6729 mi. Sect. 3-M. F.T.—1.0166 mi. Sect. V. 15d, all Platt Co. G. H. Baker, c/o State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, engr. county roads.

Ia., Dubuque—Dubuque Co., P. J. Kies, aud., bids about June 14, crushed rock surfacing 11.25 mi. Trunk Rd. G from Farley to Cascade, also 2 structural steel bridges, 5 culverts in various sections. A. A. Rhomberg, Dubuque, engr.

Ia., Dubuque—Dubuque Co., P. J. Kies, aud., bids about June 15, improving 7.65 mi. road, constructing bridges, culverts. $40,000. A. A. Rhomberg, Dubuque, co. engr.

Ia., Lorimor—June 9, by W. C. Grandfield, city clk., Town Hall, grading, curbing, guttering, cross walks, sidewalks, 6 in. rein.-con., 6 in. Johnson concrete, 6 in. compacted concrete, 2½ in. brick on 5 in. concrete, 2 in. asphalt on 4 in. crushed rock surfacing 5,035 sq.yd. (probably more) 2nd Ave. and 4th St. Henningson Eng. Co., Union State Bank Bldg., Omaha, Neb., engrs.

Ia., Orange City—June 8, at office Auditor Sioux Co., surfacing 26.25 mi. roads, incl. 30,250 cu.yd. gravel, 216,200 units overhaul.

Kentucky — June 15, by State Hy. Dpt., Frankfort, grading, drainage structures 12.1 mi. Owingsville-Frenchburg Rd., Bath Co.—2.9 mi. Albany-Jamestown Rd., Clinton Co.—12 mi. Dry Ridge-Owenton Rd., Grant Co.—6.3 mi. Smithland-Birdsville-Bayou Rd., Livingston Co.—3.1 mi. Beech Grove-Rangers Landing Rd., McLean Co.—7.6 mi. Edmonton-Tompkinsville Rd., Metcalf Co.—8.7 mi. Tompkinsville-Hestand-Tennessee State Line Rd., Monroe Co.—10.8 mi. Crestwood-Ballardsville-New Castle Rd., Oldham Co.—10.2 mi. Somerset-London Rd., Pulaski Co.—3.9 mi. Wagoners Store-Wrigley Rd., Rowan Co.—3.6 mi. Russell Springs-Somerset Rd., Russell Co.—grading, drainage structures, surfacing 6.9 mi. Carrollton-Ghent Rd., Carroll Co.—6.7 mi. Williamsburg-Pineville Rd., Whitley Co.—0.5 mi. Flemingsburg St. on Fairview Rd. and 0.5 mi. on Mt. Carmel Rd., also surfacing Court House Square, in Flemingsburg, Fleming Co.—12.5 mi. Hopkinsville-Cadiz-Paducah Rd., Trigg Co. H. D. Palmore, hy. engr.

Maryland—June 7, by State Roads Comn., G. C. Uhl, chn., Baltimore, sheet asphalt paving 0.79 mi. Contr. BC-118-72, Baltimore City—gravel surfacing 2.99 mi. Contr. P-221-811, Prince Georges Co.—macadam resurfacing 1.4 mi. Contr. Q-77-22, Queen Anne's Co.—concrete paving 1 mi. Contr. Co-76-22, Caroline Co.—1.14 mi. Contr. Wo-119-14, Worcester Co.; adv. E. N.-R. June 2.

Md., Baltimore—June 8, by Bd. Awards, concrete paving 12,000 sq.yd. streets listed in Contr. 620; 12,000 sq.yd. streets listed in Contr. 617; G. Cobb, Municipal Bldg., hys. engr.

Miss., Waveland—Mayor and Bd. Aldermen, rejected bids May 20, grading, curbing, guttering, sewers, paving 36,178 sq.yd. streets. $50,000. Will readvertise. McGowen & Williams, Yazoo City, engrs.

Missouri—June 7, by State Hy. Bd., Jefferson City, improving roads in Adair, Barton, Bates, Benton, Butler, Caldwell, Camden, Carroll, Chariton, Clay, Cole, Crawford, Dallas, Dunklin, Franklin, Gentry, Greene, Howard, Iron, Jefferson, Johnson, Lafayette, Linn, Livingston, Macon, Marion, McDonald, Miller, New Madrid, Perry, Polk, Pulaski, Ralls, Ray, Scott, Stoddard, Sullivan, Washington, Warren and Wayne Counties. T. H. Cutler, ch. engr.

Mo., Independence—June 7, by Jackson Co., Court House, grading, drainage, concrete paving Ash Rd. and 2 county projects. $75,000. Stayton & Veatch, 508 Mutual Bldg., Kansas City, engrs.

Mo., Kansas City—Soon takes bids 8 in. concrete paving 13,847 sq.yd. Wornell Rd. $50,000. R. Waddell, city engr.

Mo., Kansas City—June 7, by Jackson Co., concrete widening 0.356 mi. Ash Avenue Rd.—0.479 mi. Huttig Ave. Rd.—0.289 mi. Ash Avenue Rd., L. Koehler, Court House, Independence, co. engr. Stayton & Veatch, 508 Interstate Bldg., consult. engrs.

Mo., St. Louis—June 14, by Bd. P. Serv., City Hall, granite curbing, asphalt paving 4,720 sq.yd. Enright Ave. from Taylor to Walton Aves., $27,760—4,690 sq.yd. Enright Ave. from Walter St. to Kingshighway Blvd., $37,200 — warrenite bitulithic paving 12,515 sq.yd. Sheridan Ave., $78,960—asphalt paving 550 sq.yd. Jefferson and Cass Aves. $4,000. W. W. Horner, city engr.

New Jersey—June 20, by State Hy. Comn., Trenton, grading, 9 in. rein.-con. paving 51,561 sq.yd. Route 42, Sect. 7, Grenlock to Woods Corner, Camden and Gloucester Counties. A. L. Grover, ch. clk.; adv. E. N.-R. June 2.

New Mexico—June 7, by W. R. Eccles, state hy. engr., Santa Fe, grading, road mix or machine mix top course concrete and oil processing 28.4 mi. F.A.P. 5, 127-A, 127-C and 160-B, Quay Co.—13.401 mi. F.A.P. 1-C, Reopened, Colfax Co.—grading, bridging, washed base course surfacing 3.721 mi. State Project 88-H, Santa Fe Co.—furnishing 6,417 bbl. fuel oil, 27,961 bbl. road oil, and 2,331 bbl. seal coat for F.A.P. 1-C, 5, 127-A, 127-C, 160-B and 166-A, Colfax, Quay and Luna Counties, for State Hy. Dpt. Santa Fe.

New York—June 7, by Westchester Co., Court House, White Plains, bituminous macadam and oil asphalt paving, White Plains, 1.19 mi. Boonton St., Lewisboro. $40,000. J. Downing, co. engr.

New York—June 21, by A. W. Brandt, comr. Highways, Albany, constructing hys. in Clinton, Herkimer, Jefferson, Saratoga and Washington Counties; reconstructing hys. in Niagara, Tompkins and Cayuga Counties; adv. E. N.-R. June 2.

N. Y., Long Island City—June 7, by G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., grading, curbing, sidewalks, bituminous on concrete paving Amory Court, Far Rockaway Blvd., 43rd Ave. and Amory St.—grading, sidewalks, curbing, sidewalks, asphalt on concrete paving, Bway., 39th, 43rd and Ericson Aves., 83rd, 128th, 129th, 45th, 32nd, 38th Sts.—curbing, sidewalks, asphalt on concrete paving and between trolley rails with granite block on concrete paving Corona Ave.

N. Y., New York—June 6, by S. Levy, pres. Manhattan Boro, Municipal Bldg., grading, asphalt block on concrete paving Park and Baxter Sts.—granite block on concrete paving 7th Ave. and Leonard St.—sheet asphalt on East 69th and West 132nd Sts.

N. Y., New York—June 9, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., grading, curbing, sidewalks, sheet asphalt on concrete paving Pelham Parkway, East 172nd, West 262nd Sts., grading Dwight, McDonough, Robertson, Kennelworth, Pls., Ampere, Griswold and Ohm Aves.

N. Y., St. George—June 8, by J. A. Lynch, pres. Richmond Boro, Boro Hall, high early strength concrete and granite block paving Victory Blvd.

Ohio—June 10, by O. W. Merrell, dir. hys., Columbus, grading, drainage structures, brick paving 0.885 mi. Sect. "Akron" Akron-Tallmadge Rd., S. H. 571, State Route 18 in City of Akron, $37,148 except brick furnishing, delivering brick for same f.o.b. cars, Akron, $15,379; grading, drainage structures 6,370 ft. Sect. "A" Akron-Tallmadge Rd., in Tallmadge Twp., $54,230 furnishing, delivering brick for same f.o.b. cars, Akron, $23,203, both Summit Co.

Oklahoma—June 7, by State Hy. Dpt., Oklahoma City, concrete surfacing 5.1 mi. U. S. Hy. 66, south of Kansas State Line, 32 ft. $100,000; 5 mi. U. S. Hy. 66 at Ovapaw, 20 ft., $100,000. C. L. Wilson, hy. engr.

Pa., Sewickley—June 7, by R. G. Woodside, controller Allegheny Co., Court House, concrete surfacing Ohio River Blvd., Broad Street Extension and Sewickley-Coraopolis Bridge Approach. $78,000. E. L. Schmidt, County Office Bldg., Pittsburgh, engr.

Texas—June 10, by G. Gilchrist, state hy. engr., Austin, grading, drainage structures, concrete paving 35,893 mi. hys. in Pecos and Comal Counties, $160,000—grading, drainage structures 98,954 mi. hys. in Lubbock, Brewster, Reeves, Culberson, Bell, McLennan, Concho, Menard, Crockett, Hemphill, Calhoun, and Coke Counties, $351,000—concrete paving 23,276 mi. hys. in Navarro and McLennan Counties, $400,000—double bitulithic surfacing 10.678 mi. hy. Kerr Co., $32,000—triple asphalt surface treating and iron ore top soil shoulders, 7.308 mi. hy. Cherokee Co., $30,000—caliche base course surfacing 16.925 mi. hy. Goliad Co., $36,000.

Washington—June 14, by S. J. Humes, dir. Hys., Olympia, concrete paving, bridging 5.9 mi. State Rd. 3, Dayton North, F.A.P. 157-A, Columbia Co.—bituminous surface treating 55 mi. State Rd. 5, Lewis Co.—28 mi. State Rd. 8, Clark and Skamania Counties—31 mi. State Rd. 12, Cowlitz and Wahkiakum Counties—grading, crushed stone surfacing 5,130 cu.yd.

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Streets and Roads (Continued)

State Rd. 15, Chelan Co.—crushed stone, resurfacing 8,680 cu.yd. State Rd. 22, Lincoln Co.—constructing 2 concrete girder bridges across Methow River, Methow Hy., Okanogan Co.

Wash., Seattle—Bd. P. Wks. received no bids May 13, concrete paving 14,020 sq.yd. Franklin Ave. Will readvertise when bond market improves. D. W. McMorris, city engr.

Wisconsin—June 10, by State Hy. Comn. and Hy. Com. Sheboygan Co., Madison, grading, concrete paving 123,949 sq.yd. Plymouth-West Co. Line Rd., S. T. Hy. 67, S.A.P. 2094 Sheboygan Co.; constructing 0.482 mi. approaches only Bain and Truesdell Grade Separations.

Wyoming—June 7, by State Hy. Comn., Cheyenne, grading, bridging 9.718 mi. Glenrock-Douglas Rd., F.A.P. 166-B, Converse Co.—16.506 mi. Moorcroft-Upton Rd., F.A.P. 185-C, Crook and Weston Counties—surface treating 23.275 mi. Wheatland-Douglas Rd., State Projects 1021 and 1022, Platt Co.—oil treating 25.927 mi. Gillette-Moorcraft Rd., S.P. 102 and 1027, Campbell and Crook Counties—69.853 mi. Casper-Shoshone Rd., Fremont and Natrona Counties—base course surfacing 12.198 mi. Pinedale Jackson Rd., Sublette Co.—11,185 mi. Evanston-Sage Rd., Uinta and Lincoln Counties, etc.

B. C., Vancouver—City Council, bids about June 16, concrete paving 49th Ave. from Granville to Cambie Sts. $40,000. C. Brackenridge, City Hall, engr.

CONTRACTS AWARDED

California — State Hy. Comn., Sacramento, treating with fuel oil as dust palliative 30.6 mi. road between Delleker and junction with State Hy. Route 29 near Chat, Plumas and Lessen Counties, to Basalt Rock Co., Napa, $8,712; will take new bids treating with road oil 30.6 mi. road between Weldon and Democrat Springs, Kern Co. Former contract rescinded. Noted Apr. 21 and 28.

Calif., Alhambra—Los Angeles Co., Hall of Records Bldg., Los Angeles, 6 in. asphaltic concrete paving 14,640 ft. Mission Rd. from west city limits to Hidalgo St., to Osborn Co., 455 California Terrace, Pasadena, $25,730.

Calif., Los Angeles—Bd. P. Wks., City Hall, grading, curbing, sidewalks, asphaltic concrete paving Anaheim St., between Mar Vista and Governor Aves., to Griffith Co., Los Angeles Railway Bldg., $111,338.

Calif., Oakland—W. W. Chappell, city clk., grading, paving for widening Upper Park Blvd. between Estates Dr. and Mountain Blvd., to M. Rosenberg, 1755 San Bruno Ave., San Francisco. $32,534.

Calif., Pasadena—Los Angeles Co., 9-7-7-9 in. concrete paving 376,530 sq.ft. two 15 in. strips Colorado St. from east city limits to Montor Ave., and constructing 7 culverts, to J. E. Haddock Ltd., 357 North Chester Ave. $67,020. Los Angeles County appropriated $85,000 for above project.

Colorado—State Hy. Dpt., Denver, c/o C. D. Vail, engr., constructing 7 mi. road between Pueblo and Walsenburg, to C. B. Owen, Denver, $67,507; bridge over Sand Creek, near Canon City, to Pueblo Bridge Co., 410 East 7th St., Pueblo, $5,466 est. $6,407.

Conn., New Haven—Municipal Paving Comn., bituminous macadam paving Howard Ave., to C. W. Blakeslee & Sons, 58 Waverly St., $18,205. Est. $25,000.

Idaho—G. E. McKelvey, comr. P. Wks., Boise, crushed graveling 50 mi. Old Oregon Trail between Burley and American Falls, to Wheelright Constr. Co., Ogden, Utah, $42,719—10 mi. Idaho-Montana Hy., to J. C. O'Connor, Butte, Mont., $6,200—5.6 mi. road near Craigmona, to M. J. Runey, Spokane, Wash., $7,568—2 concrete bridges over Teton River and an adjacent canal, near Sugar City, to O. Bundy, Ogden, Utah, $11,185. Grand total $67,670. Noted May 10.

Ill., Carrollton—Greene Co., grading, crushed stone surfacing 4,291 cu.yd. State Aid Route 4, Sect. 3-M.F.T., incl. 1,072 ft. 12- to 42-in. corrugated metal culvert pipe to Meyer Coal & Supply Co., Granite City, $17,338; three 40 ft. span I-beam bridges, 20 ft. roadway, on same road, Sect. 3-2B-M.F.T., to Illinois Steel Bridge Co., Jacksonville, $4,529.

Ill., Rockford—Bd. Supervs. Winnebago Co., concrete paving 66,281 sq.yd. State Aid Route 7, Sect. 3, to Milburn Bros., Rockford, $79,611.

Ia., Nevada—Story Co., new work and maintenance gravel surfacing 48 mi. local and trunk roads, to Nelson & Melohn, Nevada, $50,390—9 mi., to E. Wahl, Victor, $10,340—gravel surfacing 1.25 mi. new road, to R. Chitty, Fernold, $910. Grand total $61,640. Noted Apr. 28.

Ia., Storm Lake — Buena Vista Co., gravel surfacing various sections road, to A. L. Albrecht, Storm Lake, $37,074.

Kansas—State Hy. Comn., Court House, Olathe **(P. means Project)** to McMillen & Furman, El Dorado, sand gravel surfacing 11 mi. Lyon Co. $6,512—to Collins Constr. Co., Leavenworth, 5.273 mi. P. 73W-28-7535 $4,778; 7 mi. P. 73W-30-7537 $5,838, both Atchison Co.; 19 mi. Leavenworth Co. $9,975—to B. Metzger, Ozawkie, 11.7 mi. Marshall Co. $4,399—to M. W. Watson, Mulvane Bldg., Topeka, 15.7 mi. Doniphan Co. $13,847—to Cook & Cone, Ottawa, 5 mi. Brown Co. $4,380. 8 mi. Doniphan Co. $4,832—to Yant Constr. Co., 905 Omaha Natl. Bank Bldg., Omaha, Neb., 2 mi. Marshall Co. $1,096; 11.7 mi. Nemaha Co. $6,739—to Western Bridge & Constr. Co., 3867 Leavenworth St., Omaha, Neb., 4.55 mi. P. 24-8-7569 $3,413. 3.45 mi. P. 24-7-7570 $2,738, both Jackson Co. —to Roberts Constr. Co., Orpheum Bldg., Wichita, 12.55 mi. Brown Co., $11,295—to M. N. Penny, Lawrence, concrete surfacing 3.904 mi. P. 7-20-F.A.P. 293-B $77,243; 1.008 mi. P-7-20, F.A.P. 293-F $22,400, both Johnson Co. —to C. J. McCoy, Emporia, 0.066 mi. bridge approaches P. 11, 14A-F.A.P. 260-A, $919; Bridge 1 on same road, incl. three 80 ft. beam spans, $19,634, both Lyon Co. Grand total $200,038. Noted May 5.

Kan., Kansas City—W. Beggs, clk. Wyandotte Co., concrete paving 0.348 mi. North 38th St., 18 ft. wide, 10 ft. shoulders, also Colpen emulsified asphalt or asphaltic concrete surfacing 0.993 mi. C. H. N. Moore Rd., 16 ft. wide, 4 ft. shoulders, to J. A. Tobin Constr. Co., 226 West 39th St., $7,828 and $10,059 respectively. Noted Apr. 21.

Md., Baltimore — Bd. Awards, sheet asphalt paving 8,650 sq.yd. streets listed in Contr. 618, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., $24,564. Noted May 5.

Mass., Boston—Dpt. P. Wks., J. A. Rourke, comr., sheet asphalt paving "L" St., Wards 6 and 7, South Boston, to J. Iozzo, 220 Bremen St., East Boston, $19,199. Est. $25,000. Noted May 12.

Michigan—H. W. Hagaman, div. engr., 504 Eddy Bldg., Saginaw, grading, shaping, drainage, 20 ft. concrete paving 0.99 mi. M025-26C-2 and 11.388 mi. F025-26C-1, Genesee Co., to C. G. Milne, Saginaw, $17,361 and $293,503 respectively. Noted Apr. 21.

Michigan—H. G. Oakes, div. engr., Plymouth, grading, drainage structures 2.462 mi. FO63-27C-2, Oakland Co., to Furnari Excavating Co., 14554 Grandmont St., Detroit, $24,849. Noted Mar. 3.

Michigan—H. G. Oakes, div. engr., Plymouth, grading, drainage structures 3.611 mi. FO13-27C-1, Calhoun Co., to Brown Bros., Battle Creek, $20,523. Noted Mar. 17.

Michigan—H. G. Oakes, div. engr., Plymouth, grading, drainage structures 2.82 mi. MO63-39C-1, Oakland Co., to Persinger Excavating Co., Lincoln Park, $22,240. Noted Mar. 10.

Michigan—H. G. Oakes, div. engr., Plymouth, widening grade, lengthening drainage structures 5.188 mi. FO12-18C-1, Branch Co., to W. H. Friedrich, Coldwater, $20,988. Noted Mar. 17.

Minnesota—State Hy. Comn., St. Paul, grading 9.1 mi. State Project 6-55, Sect. 2 and 11.3 mi. S.P. 30-22, Div. A, to R. P. England, St. James, $23,938 and $43,832 respectively—7 mi. S.P. 8-48, Sect. 2, to W. E. Preston, 1436 Portland Ave., St. Paul, $44,090—7.9 mi. F.A.P. 432A, to A. Guthrie & Co., Builders Exch., St. Paul, $91,817. 11.9 mi. 34-27, to Barnard-Curtiss Co., 506 Globe Bldg., Minneapolis, $96,-1333—6.4 mi. S.P. 35-54, to M. Wunderlich, 1221 Blair St., St. Paul, $87,274—guard rail on Sects. 1, 2, and 3, to Minneapolis Bridge Co., 701 Metropolitan Bldg., Minneapolis, $61,249. Grand total $448,333. Noted May 5.

Nevada—State Hy. Dpt., Carson City, asphaltic concrete paving 13.72 mi. hy. from Washo Summit to Carson City, Washoe and Ormsby Counties, to Jones & King, Hayward, Calif., $332,712—oil processing 24.07 mi. road, Mineral Co., to A. D. Drumm, Fallon, $40,775—9.59 mi. Churchill Co., to Dodge Bros. Fallon, $16,999. Grand total $390,526. Noted May 5.

N. J., Hackettstown—Mayor and City Council, constructing 2.52 mi. Hackettstown-Saxton Falls Rd., to F. H. Smith, Hackettstown, $56,-822.

N. J., Paterson—Bd. P. Wks., City Hall, asphalt paving East 13th St., 21st, 4th and 5th Aves., to G. F. Brachett, Market St., East Paterson, $16,700; granite block paving, to R. S. Sowerbutt, Belmont Ave.; reclipped block pavin, to Union Building & Constr. Co., 150 Prospect St., Passaic.

N. Y., New York — H. Bruckner, pres. Bronx Boro, Boro Hall, to S. LaBarbera, 65 Webster Ridge, New Rochelle, grading East 241st St., $6,532—to A. Musumecci, 277 East 146th St., Duryea Ave. $6,140—to M. Del Balso, 2551 Cruger Ave., Thwaites Pl., $1,516—to A. Campobosso, Camp St., $1,854—to C. D. Beckwith, Inc., Seneca Ave. and Edgewater Rd., asphalt paving Richardson St. $33,169; Holland Ave. $8,619; Lyvere St. $6,519; Olmstead Ave. $5,-738; Zulette Ave. $4,352; Odell St. $3,655; Grand total $78,094. Noted Apr. 21.

N. Y., New York—S. Levy, pres. Manhattan Boro, Municipal Bldg., granite block paving Ferry St., to Leonard Paving Co., 60 East 42nd St., $13,003. Noted Apr. 28.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, grading 3rd St., to J. Kelly, 1150 Forest Ave., Port Richmond, $4,293; bituminous macadam paving Merriman Ave., to J. J. O'Rourke, 239 Gordon St., Stapleton, $3,796. Noted Apr. 21.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, regulating Orange Ave. and sidewalks on Oder Ave., to Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, $3,808 and $2,098 respectively; regulating Winant Pl., to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $4,384. Grand total $10,-290. Noted May 7.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, to Vanbro Constr. Co., 24 Elizabeth St., West New Brighton, grading, macadam paving Belair Rd. $4,032; steel guard and sidewalk on Crittenden Pl. $1,352; grading Spring St. $3,856—to J. J. O'Rourke, 239 Gordon St., Stapleton, sewer in Liberty Ave., $868. Grand total $10,108. Noted Apr. 14.

N. Y., Utica—Grading, sheet asphalt, asph tic concrete, warrenite bithulithic or rein.-co paving 5,917 ft. Armory Dr., Arthur St., H ton, Tilden and Mather Aves., to Utica Const Co., 266 South St. Est. $72,400. Propert owners will designate type of paving befo June 6.

North Carolina—State Hy. Comn., Raleig grading, traffic bound macadam paving 71,04 sq.yd. Project 7331, Route 90, between Mockville and Forks Creek Church, Davie Co., to Cob & Homewood, Chapel Hill, $45,283. Not May 12.

Ohio—O. W. Merrell, dir. hys., Columbu brick paving 5.43 mi. U. S. Route 21, Massillon Canal-Dover Rd., Stark Co., to Cleveland Trin dad Paving Co., Western Reserve Bldg., Clev land, $128,608; furnishing and delivering bri for same, to Metropolitan Paving Brick Co Renkert Bldg., Canton, $60,245.

Ohio — O. W. Merrell, dir. hys., Columbu brick paving, except brick, 1.445 mi. hy. Cuya hoga Co., to Roehl Bros. Paving & Constr. Co 7008 Denison Ave., Cleveland, $30,421; furnishing, delivering brick for same to Cleveland Brick & Clay Co., 7511 Jeffries St., Cleveland, $18,678—brick paving, except brick 0.48 mi. Fayette Co. and grading, draining, bituminous macadam widening 1.804 mi. Pickaway Co., to W. H. Ringwald & Sons Co., Chillicothe, $29,401 and $23,498 respectively—furnishing and delivering brick for same, to Hocking Valley Brick Co., 150 East Broad St., Columbus, $11,418—brick paving, except brick 2.035 mi. Sect. "B" Pittsburgh-Youngstown Rd., and grading, widening, draining, bituminous macadam resurfacing 2.354 mi. Sect. "T-2" Salem-Warren Rd., both foregoing in Mahoning Co., to McCourt Constr. Co., 365 South Main St., Akron, $73,543 and $33,748 respectively—brick paving, except brick 4.599 mi. Muskingum Co., to Adams Bros. Constr. Co., Zanesville, $143,-000 (contract subject to approval of Federal Government)—concrete paving 3.921 mi. Paulding Co., and 0.099 mi. Fulton Co., to J. A. Elder, Bryan, $62,460 and $18,264 respectively — 0.163 mi. Lake Co., to C. A. White Constr. Co., Willoughby, $4,440—1.179 mi. Pike Co., to Edwards Constr. Co., Sunbury, $25,376—5.1262 mi. Wood Co., to S. E. Johnson Co., Laskey Rd., Toledo, $173,780—4.3372 mi. Portage Co., to Robinson-Burns & Cooper Co., 337 South High St., Columbus, $70,046—bituminous macadam paving 0.995 mi. Hardin Co., to Carey & Carey, Ada, $13,832. Grand total $731,905.

O., Cincinnati—Hamilton Co., grading, asphalt bound macadam repaving 17,500 sq.yd. Gaines Rd. from Giffin to Springdale Rds., to D. C. Bunson, Springdale and Mullen Rds., $26,621 est. $33,465—cleaning and surface treating 149 mi. roads, involving 380,000 gal. tar Grade 2, 11,000 cu.yd. sand, 1,400,000 sq.yd. cleaning, to L. P. Cavett Co., 501 Shepherd Ave., Lockland, $62,-010 est. $69,950—concrete paving 7,800 sq.yd. Lick Run Rd. from corporation line Cincinnati to Boudinot Rd., to J. E. Roach, Jr., 1886 Huron Ave., $19,519 est. $27,816. Grand total $108,-150. Noted May 5.

Tennessee—State Dpt. Hys. & P. Wks., Nashville, concrete paving 0.131 mi. road in Greene Co., to Alley Constr. Co., Bristol, $3,906—0.969 mi. Henderson Co., to John Oman, Jr., Acklin Park, Nashville, $4,405—0.918 mi. Pickett Co., to Garrett Bros., Sevierville, $15,-775. Grand total $47,326. Noted Apr. 28.

Virginia—State Hy. Dpt., Richmond, grading, drainage structures 4.678 mi. road in Russell and Washington Counties, incl. bridge over Little Moccasin Creek, to R. H. Bolling, Norton, $47,-951—clearing, grubbing, grading, drainage structures, top soil surfacing 9.146 mi. road Halifax Co., incl. bridge over Lawson Creek, to C. A. Ragland, Louisburg, N. C., $41,130—grading, one course macadam surface treating 4.023 mi. Rockbridge Co., to Robert Martin Co., Inc., Salem, $27,630—Grand total $116,-711. Noted May 12.

Tenn., Tullahoma — Coffee Co., improving 4 mi. Tullahoma-Moore Co. line Rd., hy. from Tullahoma to Rileys Creek, Powers Ridge to Blanton Chapel and Hills Chapel road from Manchester to Dixie, own forces. J. C. Jackson, Court House, engr.

Va., Richmond—At office R. K. Compton, dir. P. Wks., grading, curbing, guttering, gravel surfacing 21,625 sq.yd. streets, to Anderson & Maynard, Richmond, $13,820.

Wash., Tacoma—Bd. Contr. & Supply, City Hall, grading, curbing, concrete paving 13,026 sq.yd. South 56th St., to Paines & Palluci, 1521 South Grant St., $18,283. Est. $24,500. Noted May 5.

Wisconsin—State Hy. Comn., Fond du Lac, grading, concrete paving 87,653 sq.yd. Lake Shore Rd., Co. Trunk Hy. A, Fond du Lac Co., to A. Guthrie & Co., Inc., 1300 Builders Exch. Bldg., St. Paul, Minn., $193,383.

Wisconsin—State Hy. Comn., Green Bay, improving Tilleda-Wittenberg Rd., F.A.P. 247, Reopened and 441-G, S.T.H. 29, to A. B. Lynch, 1012 North 3rd St., Milwaukee, $72,580; 7.674 mi. Tilleda-Wittenberg Rd., Project 441-G, S.T.H. 29, to Nelson, Mullen & Nelson, Rhinelander, $94,823, both projects in Shawano Co. lander, $94,823, both projects in Shawano Co.

Wisconsin—State Hy. Comn., Madison, concrete paving 0.67 mi. North Camp Douglas and West Camp Douglas Overhead approaches, F.A.P. 325-E and S.P. 4624, U.S. Hy. 12 and 61, State Trunk Hy. 94, Juneau Co., to Fitzpatrick & Kuenzli, Cumberland, $52,802—Endeavor-Westfield Rd. (structures only), F.P. 423-G. U. S. Hy. 51, Marquette Co., to A. O. Clark, Wausau,

Streets and Roads (Continued)

$13,536—Brock Bridge, Marathon Co., to J. B. Jeffery, Phillips, $2,991. Grand total $69,329.

Wisconsin — State Hy. Comn., LaCrosse, crushed stone surfacing 2,400 cu.yd., Monroe Co., to Interstate Constr. Co., Madison, $5,592—13,000 cu.yd., Monroe and Veron Counties, to O. Sanders, Mount Horeb, $18,380—graveling, 8,800 cu.yd., Buffalo Co., to Mondovi Trucking Co., Mondovi, $10,032—furnishing 78,000 gal. asphalt Type "CC" 50-60, to White Eagle Oil Co., 606 Vandalia St., St. Paul, Minn., $3,081—1,050,000 gal. asphalt Type "C" 50-60 and 70-80 to Texas Co., 332 South Michigan Ave., Chicago, Ill., $40,427—222,000 gal. asphalt Type "E," to Col-Tax Refining Co., Oklahoma City, Okla., $12,790—108,000 gal. tar Type "B," to International Combustion Tar & Chemical Co., 2,500 South Damen Ave., Chicago, Ill., $9,162—applying bituminous material in Buffalo Co., to J. W. Craig Co., 147 New York Life Bldg., Minneapolis, Minn., $2,190—in Jackson and Monroe Counties, to Sarrington Milling Co., Delton, $1,489 and $2,235 respectively. Grand total $105,378. Noted May 5 Daily.

Wis., Oshkosh—Winnebago Co., to J. S. Karlsyst, Stoughton, 13,900 cu.yd. washed gravel and 7,700 cu.yd. sand surfacing Koro-Waukau Rd. $10,152—to J. Rasmussen & Sons Co., Oshkosh, asphaltic concrete paving 9,400 sq.yd. County Trunk K, $8,742—to Wunderlich & Bleick, Naffin Bridge, Project 3468, $5,715—to Fluor Bros. Constr. Co., Oshkosh, Barnett Bridge $2,363; Heise Bridge $1,789; Shea Bridge $3,010. Grand total $31,771.

Ont., Toronto — City, Concrete paving St. Patrick Sq., to Grant Contg. Co. Ltd., 47 Wellington St. E., $2,504—asphalt paving Woburn Ave. and concrete curbing same avenue, to Godson Contg. Co. Ltd., 203 Richmond St. W., $26,445 and 70c. per ft. respectively—asphalt paving Franklin Ave., to Kilmer & Barber, Harbor Bldg., $1,212; concrete sidewalks, to E. L. Foci, 317 Mann Ave., to L. P. Acri, 28 Grove Ave., to H. Durband, 238 Euclid Ave., and to Kilmer & Barber, Harbor Bldg., at 12.5c. to 15.75c. per sq.ft.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

Calif., Long Beach — Election $2,820,000, yacht anchorage and marine race course, incl. rock breakwater extending oceanward from 46th Pl. 3,500 ft., thence easterly 7,000 ft. and 3,000 ft. toward shore, also 30 x 450 ft. Marine Service Station miscellaneous structures.

Ill., Springfield — City Council, plans completed artificial lake and plans nearing completion viaduct. $2,500,000. Burns & McDonnell Eng. Co., 400 Interstate Bldg., Kansas City, Mo., engrs.

La., New Orleans — Sewerage & Water Bd., 526 Carondalet St., getting ready to prepare plans deepening, widening London Ave. Outfall Canal $90,000; Orleans Avenue Outfall Canal $80,000.

Mass., Quincy—Commonwealth of Massachusetts, dredging 2,500 lin.ft. upstream, equal depth and suitable width from Weymouth Fore River Bridge. To exceed $25,000.

Miss., Gulfport—Mississippi House of Representatives passed the $1,000,000 Gulfport Harbor Improvement bond issue bill. J. W. Milner, mayor.

Manitoba—Manitoba Dairy Farms, Marchand, reclamation scheme to drain and reclaim 70,000 acres in southeastern Manitoba for productive purposes. **Maturity indefinite.** R. Davidson, Marchand, secy.

BIDS ASKED

La., New Orleans—June 8, by State Bd. Engineers, miscellaneous repairs to levees in Tensas Levee District in Desha and Chicot Counties, Arkansas, incl. 50,000 cu.yd. excav.

N. Y., Brooklyn—June 9, by J. McKenzie, comr. Docks, Pier A, Battery Pl., New York, placing top soil between West 23rd and West 31st Sts., Coney Island Creek, Contr. 2084.

CONTRACTS AWARDED

Calif., Los Angeles—Los Angeles Co., excavating channel, constructing levee complete in Ballona Creek from Roosevelt Hy. westerly, incl. 86,000 cu.yd. material, to J. P. Holland, Inc., Star Route 76401, San Bernardino, $21,070. Noted May 5.

N. J., North Wildwood—Bd. Commerce & Navigation, Trenton, dredging 45.112 cu.yd. in Hereford Inlet Channel, to Hill Dredging Co., Ventnor, at 17.5c. per cu.yd. Noted May 12.

FEDERAL GOVERNMENT

PROPOSED WORK

Calif., Alameda—SHOPS—Con. Q.M., completing plans 1 story, 340 x 500 ft., steel, concrete, at Benton Field Air Depot. Noted Mar. 24.

Miss., Gulfport—DREDGING—U. S. Eng., Wash., D. C., emergency dredging on Ship Island Pass. $30,000 appropriated.

North Carolina—DREDGING—U. S. Rivers & Harbors, Wash., D. C., enlarging Rollinson Channel to 6 ft. depth, 100 ft. wide and 2 mi. long connecting Pamlico Sound and Hatteras. $27,000.

Tex., Dallas — SEWERS, etc. — Con. Q. M., plans in progress sewage outfall line, septic tank, disposal plant, for Hensley Field.

Tex., Fort Bliss—SETTLING BASIN—Con. Q.M. constructing settling basin.

Tex., Fort Sam Houston—TARGET RANGE, etc.—Con. Q.M. target range and sanitary sewer system.

T. H., Honolulu—IMMIGRATION STATION—Treas. Dpt. at office Sup. Archt., Wash., D. C., preparing plans U. S. Immigration Station. $415,000. H. C. Cayton (and C. W. Dickey, consult. archt.), Honolulu, archt.

BIDS ASKED

Arizona—ROADS—June 14, by C. H. Sweetser, dist. engr. Pub. Rds., c/o Park Superintendent, Grand Canyon, seal coat on existing oil treatd crushed rock surfacing 18.993 mi. Grand Canyon-Desert View Hy.

Calif., Long Beach—ELEVATORS—June 20, by Treas. Dpt. at office Sup. Archt., Wash., D. C., 2 passenger elevators in U. S. Post Office.

Calif., San Rafael—BARRACKS—June 20, by Con. Q. M., 3 story, 100 x 145 ft., rein.-con. barracks building, 100 x 145 ft. concrete, steel machine shop, 111 x 200 ft. hangar, paint, oil, dope warehouse, officers' quarters, etc.; also sewerage system, electrical distributing system, roadways, walks, landing field, gas-oil system for plants, at Marin Meadows Bombing Base.

D. C., Wash.—ADMINISTRATION and LABORATORY—June 16, by Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing (except elevators and dumbwaiters) administration and laboratory buildings for National Institute of Health; adv. E. N.-R. June 2.

Illinois and Arkansas—EARTHWORK—June 8, by U. S. Eng., P. O. Box 97, Memphis, Tenn., 40,700 cu.yd. earthwork in White River Levee Dist.

Illinois and Arkansas—DIKES—June 9, by U. S. Eng., P. O. Box 97, Memphis, Tenn., 47,200 lin-ft. permeable pile dikes on Mississippi River, between Cairo, Ill. and White River, Ark. Noted May 12.

Louisiana—EARTHWORK—June 20, by U. S. Eng., foot Prytania St., New Orleans, 3,875,000 cu.yd. earthwork in 2nd New Orleans Levee Dist.

Massachusetts—SEAWALL—June 15, by U. S. Eng., Customhouse, Boston, repairing seawall at Gallops Island; adv. E. N.-R. June 2.

Mass., Quincy—FREIGHT ELEVATOR—June 16, by Treas. Dpt. at office Sup. Archt., Wash., D. C., installing freight elevator at U. S. Post Office.

Missouri—AIRWAY BEACONS—June 13, by Div. Purchase & Sales, Dpt. Commerce, Wash., D. C., establishing electric airway beacon lights on Dutchtown-St. Louis sect. New Orleans-St. Louis Airway.

Nev., Las Vegas—POST OFFICE—June 28, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted Mar. 24.

New Jersey—DREDGING—June 28, by U. S. Eng., 30 Whitehall St., New York, 277,000 cu.yd. Passaic River; adv. E. N.-R. June 2.

N. J., Plainfield—HEATING SYSTEM—June 9, by Treas. Dpt. at office Sup. Archt., Wash., D. C., furnishing, installing new heating system, incl. new boiler in post office. $25,000.

N. Y., Patchogue—POST OFFICE—June 16, by Treas. Dpt. at office Sup. Archt., Wash., C., U. S. Post Office. Noted Feb. 4.

N. C., Salisbury—EXTENDING, etc.—June 7, byl Treas. Dpt. at office Sup. Archt., Wash., D. C., extending, remodeling U. S. Post Office.

Ore., St. John—POST OFFICE—July 6, by Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing U. S. Post Office; adv. E. N.-R. June 2. Noted May 12.

Tex., San Angelo—POST OFFICE, etc.—June 22, by Treas. Dpt. at office Sup. Archt., Wash., D. C., extending and remodeling (except elevator) U. S. Post Office and Court House; adv. E. N.-R. June 2. Noted Feb. 2.

S. C., Watertown—POST OFFICE—June 28, by Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing U. S. Post Office.

BIDS RECEIVED

D. C., Wash.—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., May 24, U. S. Post Office, from McCloskey & Co., 1620 West Thompson St., Phila., Pa., $7,737,000, Item 2 $7,642,000. Noted May 19.

CONTRACTS AWARDED

Calif., San Diego—ROADS, etc.—Spec. 6842—Yards & Docks, Navy Dpt., Wash., D. C., roads, walks, water services, at Naval Operating Base, to Griffith Co., Railway Bldg., Los Angeles, $34,200.

Conn., Bridgeport—DREDGING—U. S. Eng., Providence, R. I., 467,000 cu.yd. Bridgeport Harbor, to Morris & Cummings Dredging Co., 44 Whitehall St., New York, $51,370. Noted Apr. 21.

D. C., Wash.—ELEVATOR SYSTEM—Treas. Dpt. at office Sup. Archt., complete elevator system in Agriculture Extensible Building, to Westinghouse Electric Elevator Co., 1500 North Branch St., Chicago, Ill., $263,750. Noted Apr. 7.

Kan., Leavenworth — ADMINISTRATION HOME—Standard Accident & Insurance Co., 640 Temple St., Detroit, Mich., completing 2-6 story, basement, 102 x 249 ft. hospital with 41 x 310 ft. wings, and 3 story, basement, 46 x 204 ft. nurses home at U. S. Veterans Hospital, to M. Madsen Co., 618 National Bldg., Minneapolis, Minn. Total est. $900,000. Former contract rescinded. Noted Jan. 14.

La., Shreveport—SCREENINGS—Con. Q. M., Barksdale Field, metal screening all buildings, Barksdale Field, to Kane Mfg. Co., Kane, Pa., $17,928; wood screening, to M. Wilder Co., Houston, Tex., $22,899. Noted Apr. 28.

La., Shreveport—STREET LIGHTING, etc.—Con. Q. M., Barksdale Field, street lighting at Barksdale Field, to J. T. Mapel, Fairbury, Ill., $13,400. Noted Apr. 28.

Mass., Watertown—STEEL—Commanding Officer, Watertown, 50,000 lb. round steel for remolting, to Crucible Steel Co., 540 Atlantic Ave., Boston, at 3.9923c. per lb.

Mo., Kansas City — FUEL OIL BURNING UNIT, etc.—U. S. Eng., 707 Postal Telegraph Bldg., fuel oil burning unit for Jefferson City, to Christenson-Conway Burner Co., 1519 Main St., $350; 1 steam vertical 45 hp. 125 lb. pressure boiler, f.o.b. Jefferson City, to Murray Iron Wks., Kansas City, $618; 1 steam driven horizontal duplex 10x10x12 in. pump, f.o.b. Jefferson City, to Worthington Pump & Mchy. Co., 710 Dwight Bldg., $445; 210,000 ft. ¾ in. wire strand, to Sheffield Steel Corp., Sheffield St., $2,088; 210,000 ft. ¾ in. wire strand to Amer. Steel & Wire Co., 417 Grand St., $2,432. Grand total $5,933.

O., Dover—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Patterson Eng. Co., 8044 Wheeler St., Detroit, Mich., $58,300. Noted Apr. 14.

R. I., Block Island—DREDGING—U. S. Eng., Providence, 15,200 cu.yd. harbor of Refuge, to Bay State Dredging & Constr. Co., 62 Condor St., East Boston, Mass., $5,472. Noted Apr. 28.

R. I., Newport—ROADS—P. Wks. Officer, Administration Bldg., roads at Naval Training Station, to W. A. Gammino, Inc., 250 Hartford Ave., Providence, $6,873. Noted May 5.

Tenn., Chattanooga—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., concrete, steel, white Georgia marble post office, to Ralph Sollit & Sons Constr. Co., South Bend, Ind., $813,600. Noted May 26.

RAILWAYS

CONTRACTS AWARDED

Canada—Canadian Natl. Rys., Montreal, Que., furnishing 15,000 tons rails to be used at various locations as needed, to Dominion Steel Co., Sydney, N. S.

SUBWAYS AND TUNNELS

PROPOSED WORK

Pa., Phila.—Dpt. City Transit, C. S. Davis, dir., rejected bids Dec. 29, Contr. 220, Broad Street Subway, furnishing, installing, relocating electrical equipment in substations and in subway. $75,000. Will readvertise.

GRADE CROSSINGS

PROPOSED WORK

N. Y., Cheektowaga—Delaware, Lackawanna & Western R.R. Co., G. J. Ray, ch. engr., Hoboken, N. J., Erie R.R. Co., R. C. Falconer, ch. engr., Midland Bank Bldg., Cleveland, O., and Lehigh Valley R.R. Co., G. T. Hand, ch. engr., 143 Liberty St., New York, eliminating Union Road Grade Crossings. To exceed $25,000.

N. Y., Clymer—Pennsylvania R.R. Co., T. J. Skillman, ch. engr., Broad St. Sta., Phila., Pa., has been directed by Pub. Serv. Com. to acquire land for eliminating grade crossing. To exceed $25,000. Noted Nov. 26.

N. Y., Hammels—Long Island R.R. Co., A. C. Watson, ch. engr., Pennsylvania Station, New York, bids in July eliminating grade crossings at Beach 71st, Beach 73rd, Beach 77th, Beach 99th, Beach 80th, Beach 84th, Beach 85th, Beach 87th Sts. To exceed $1,000,000. Noted Jan. 21 under "New York."

N. Y., Roxbury—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, eliminating Rice-Clark Crossing. To exceed $40,000.

N. Y., Southport—Pennsylvania R.R. Co., A. C. Watson, ch. engr., Broad Street Sta., Phila., Pa., eliminating Caton Ave. grade separation. $157,000. Pub. Serv. approved plans. Modification in paving, etc., to be charged to State Dpt. P. Wks.

N. Y., Varick—Lehigh Valley R.R. Co., G. T. Hand, ch. engr., 143 Liberty St., New York, eliminating Old Varick Crossing. To exceed $25,000.

Tex., Fort Worth — City, c/o G. Fairtrace, mgr., and Texas & Pacific Ry. Co., E. F. Mitchell, ch. engr., Dallas, and St. Louis, San Francisco R.R., F. G. Jonah, ch. engr., St. Louis, Mo., postponed taking bids June 1 to about July 15 due to delay in preliminary work, 566 ft. rein.-con., steel, gunite covered viaduct

Grade Crossings (Continued)

over Texas and Pacific and Frisco R.R. $117,000. Noted May 12.

BIDS ASKED

Wisconsin—See "Streets and Roads."

CONTRACTS AWARDED

Mont., Miles City—Northern Pacific Ry. Co., B. Blum, ch. engr., St. Paul, Minn., grade separation, to J. C. Boespflug, Miles City. Est 80,000.

N. Y., Paris — Delaware, Lackawanna & Western R.R. Co., G. J. Ray, ch. engr., Hoboken, N. J., cable work at Cassville Grade Separation, to Western Union Telegraph Co., 60 Hudson St., New York, by day labor. Pub. Serv. Comn. directed award of contract. Noted May 26.

N. Y., Plattsburg—Delaware & Hudson R.R. Co., J. MacMartin, ch. engr., Albany, supplemental drainage work, to Amer. Pipe & Constr. Co., c/o owner. Pub. Serv. Comn. directed award of contract. Noted Aug. 19, 1931.

N. Y., Valley Stream—Foley Bros., contractors, 117 Liberty Ave., New York, 60 per cent structural steel for eliminating grade crossing by elevating Merrick Rd., Franklin, Rockaway and Scranton Aves., to National Bridge Co., 35-28 Vernon Blvd., Long Island City; and 40 per cent., to American Bridge Co., 30 Church St., New York, for Pennsylvania R.R. Co., A. C. Watson, ch. engr., Penn. Station, New York. Noted May 26, under "Contracts Awarded."

DAMS

PROPOSED WORK

Mo., Doniphan—See "Industrial Buildings."

GRAIN ELEVATORS

PROPOSED WORK

Sask., Meacham — Standard Elevator Co., grain elevator. $75,000.

POWER AND LIGHTING

PROPOSED WORK

Ia., Sioux City—See "Industrial Buildings."

New York—Utica Gas & Electric Co., 258 Genesee St., Utica, electric transmission line in Frankfort and Herkimer Counties. To exceed $25,000. Pub. Serv. Comn. approved project granting permit.

N. Y., Dannemora—New York State Electric Corp., 123 Cayuga St., Ithaca, electric distribution system in village and vicinity. To exceed $25,000.

N. Y., Mentz—Empire Gas & Electric Corp., Geneva, electric distribution system. To exceed $25,000. Applied to Pub. Serv. Comn. for permit.

N. Y., Watson—Northern New York Utilities Co., 58 Public Sq., Watertown, applied to Pub. Serv. Comn. for permission to construct electric distribution system. $25,000.

BIDS ASKED

Calif., Los Angeles—See "Streets and Roads."

New Jersey—June 13, by State Hy. Comn., Trenton, furnishing, installing lighting system, incl. conduits, cables, wires, transformers, poles, brackets on Route 25, Connecting Link, Sect. 1-8, Contr. 67. A. L. Grover, ch. clk.; adv. E. N.-R. June 2.

CONTRACTS AWARDED

Calif., Pasadena—City Council, ornamental lighting system on Lake Ave., between Colorado St. and Orange Grove Ave., incl. installation 74 combination trolley and light standards of Taper Tube manufacture, each post to have 2,000 lb. carrying capacity at 32 ft. above street, 2 cu.yd. concrete at base of each post, each standard equipped with 2 General Electric alabaster globes, to Taper Tube Pole Co., 470 Monadnock Bldg., San Francisco, $29,872.

N. Y., Long Island City—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, auxiliary power equipment for Queens Line Independent System City-owned Rapid Transit Railroads, to L. I. Waldman & Co., 241 East 36th St., New York, $368,000. Noted Mar. 22.

PARKS AND SPORTS

PROPOSED WORK

Calif., Los Angeles—Southern California Turf Breeders Assn., 812 Spring Arcade Bldg., H. L. Lewis, mgr., plans by W. P. Neil Co., 4814 Loma Vista St., 2 mi. race track known as Baldwin Park Jockey Club, 28,000 seating capacity grandstand, stables for 1,400 horses on 220 acre site, Baldwin Park. $1,000,000. **Maturity soon.**

N. Y., Valois—Valois Castle c/o J. Holt, 15 Edgewood Lane, Bronxville, rebuilding sports and recreation building, damaged by fire. $60,000. **Maturity indefinite.**

O., Youngstown—City, A. Moore, mayor, preparing plans concrete or steel swimming pool, Borts Field. $50,000. Excavation started under jurisdiction of charities organization, using unemployed men.

CONTRACTS AWARDED

Conn., Greenwich—Town, 1 story concrete field house, Byram Park, to L. Chiapetti, 118 Hamilton Ave.

Mass., Cambridge—E. Lynch, 2031 Mass. Ave., 1 story, 150 x 200 ft., concrete, timber open air dance pavilion, 598 Mass. Ave., to Arlington Constr. Co., 691 Mass. Ave., Arlington, Est. $25,000 or more. Noted May 19.

N. Y., Rockaway—Bd. Park Comrs., W. R. Herrick, pres. Park Dpt., Arsenal Bldg., Central Park, sewage disposal system at bathing pavilion, Jacob Riis Park, to D'Amato Contg. Co., 211 Beach 116th St., Rockaway Beach, $10,742. Noted May 12.

HEATING AND VENTILATING

PROPOSED WORK

Ind., New Castle—De Pauw University revised plans steam heating plant. To exceed $40,000.

CONTRACTS AWARDED

Mass., Boston—City, Dpt. School Buildings, heating and ventilating in Boys' Latin School, Louis Pastian Ave., to J. J. Hurley & Co., 104 Bway., Boston, est. exceeds $25,000; plumbing, to M. Ahern, 711 Boylston St., est. $25,000 or more. Noted Apr. 7, under "Schools, Contracts Awarded."

Mass., Leominster — St. Cecilia's Roman Catholic Church, J. Chicoine, pastor, heating church, to Jennison Co., 17 Putnam St., Fitchburg; plumbing, to Albert & Phenix, 44 Dell Ave., Worcester; electrical work, to Tuohey Co., 145 State St., Springfield. Est. $25,000. Noted May 5 under "Churches, Contracts Awarded."

N. H., Durham—D. D. Williamson, c/o A. Perreton, archt., c/o University of New Hampshire, heating in apartments, Madbury Rd., to J. K. House, Dover; plumbing, to Sanborn & McDuffee Co., 19 Hanson St., Rochester; electrical work, to R. Farmer, 63 Amherst St., Manchester. Est. $25,000. Noted Apr. 28, under "Commercial Buildings."

UNCLASSIFIED

PROPOSED WORK

Mass., Boston—TRAFFIC CIRCLE—Commonwealth of Massachusetts, traffic circle, Boylston St. and Memorial Dr. $65,000. Metropolitan Dist. Comn., engrs.

Mass., Boston—ELEVATED TOWER, etc.—Boston Elevated Ry. Co., Park Sq. Bldg., 65 x 100 ft. elevator tower and office 200 ft. high, limestone. $600,000. H. F. Kellogg, 378 Stuart St., archt. and engr.

N. J., Ridgewood—MAUSOLEUM—American Greek Catholic Orthodox Church, C. J. C. Sherwood, archbishop Metropolitan See, c/o J. D. Lugosch, archt., 714 Bergenline Ave., Union City, sketches 1 story, basement, brick, steel mausoleum, $1,000,000. Noted May 26.

N. Y., Jamesville—PLUMBING EQUIPMENT, etc.—Bd. Supervs. Onondaga Co., new plumbing and electrical equipment at Onondaga County. Penitentiary. $90,000. E. McCarthy, plumbiing engr.

N. Y., New York—MONUMENT—Owner, c/o V. B. Hampton, dir. Richmond County, George Washington Bi-Centennial, 301 Hart Ave., Port Richmond, monument, New York Harbor. To exceed $25,000. **Maturity indefinite.**

Wis., Milwaukee—TRANSIT SHED—Harbor Comn., 90 x 450 ft. steel transit shed, Jones Island. C. U. Smith, ch. engr.

BIDS ASKED

Mo., St. Louis—FIRE ALARM SYSTEM—June 28, by Bd. P. Serv., City Hall, automatic electric fire alarm system for various city institutions. $150,000. Private plans. Noted June 11.

Tex., College Station—ELEVATORS, etc.—June 11, by A. & M. College, c/o W. Wipprecht, bus. mgr., and F. E. Giesecke, archt., College Station, furnishing, installing 2 electric elevators, elevator equipment, finishing hardware for 1 of large buildings now under construction.

CONTRACTS AWARDED

California—PIPE LINE—San Diego Consolidated Gas & Electric Co., constructing 12 mi. pipe line connecting main system in San Diego with Southern Counties Gas Company, line at Rose Canyon, incl. necessary changes to handle natural gas at company's plant. $350,000. Owner builds. Work started.

Ia., Red Oak—CULVERTS, etc.—Montgomery Co., 8 concrete box culverts, to Kelley & Overman, Villisca, $5,989; 7 concrete box culverts and 30,000 lb. reinforcing bars, to Wilson Concrete Co., Red Oak, $5,641 and $3,166 respectively; 400 bbl. portland cement, to Greenbay Lumber Co., Red Oak, $500; 1,600 ft. metal culvert pipe, to Iowa Culvert & Pipe Co., Des Moines, $2,188; 146,100 ft. fir lumber, 27,600 ft. creosoted lumber and 2,420 ft. piling to Mrs. Mary B. Field, Des Moines, $8,391. Grand total $23,339. County will construct 5 concrete box culverts, own forces.

Kansas—PIPE LINE—White Eagle Oil Corp., Wichita, constructing 22 mi. 8 in. pipe line from Valley Center to Kemper Station, near Towanda, to Knupp & Freddell, Amarillo, Tex. $150,000. Local labor to be used.

MATERIALS

BIDS ASKED

ROAD TAR—**Hartford, Conn.**—June 7, by Bd. Contr. & Supply, J. M. Bush, secy., at Mayor's Office, Municipal Bldg., 30,000 gal. road tar for cold patching and 20,000 gal. for hot patching; adv. E. N.-R. June 2.

LIQUID CHLORINE—**Chicago, Ill.**—June 7, by Dpt. P. Wks., City Hall, furnishing, delivering liquid chlorine required during period from July 1 to Dec. 31, 1932, at Municipal Warehouse, 3150 South Sacramento Ave. A. A. Sprague, comr.

ASPHALTIC ROAD OIL—**Freehold, N. J.**—June 8, by Bd. Freeholders Monmouth Co., Court House, 87,000 gal. more or less asphaltic road oil to be applied on county roads. $5,000 or more. G. K. Allen, Broad St., Red Bank, co. engr.

PORTLAND CEMENT—**New York, N. Y.**—June 7, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., 5,000 bags portland cement.

STEEL GY WIRE, etc.—**Phila., Pa.**—June 7, by Dpt. P. Safety, K. Dodge, dir., 715 City Hall Annex, Electrical Bureau, furnishing No. 1 steel GY wire, rubber covered wire, electrical supplies, neon tubes, gravel, cement, traffic signals, black paint.

SCHOOL BUILDING MATERIALS—**Upper Darby, Pa.**—June 6, by Upper Darby Twp. School Directors, W. C. Sampson, supt., Upper Darby Senior High School, Lansdowne Ave. and School Lane, building repair materials for year 1932-1933, and supplies for various schools.

CONTRACTS AWARDED

ROAD OIL—**Colorado**—State Hy. Dpt., Denver, 1,770,000 gal. road oil on Hy. 40 between Denver and Limon, to White Eagle Oil Co., Federal Reserve Bldg., Kansas City, Mo., $89,031.

CAST IRON WATER PIPE—**Waterbury, Conn.**—Municipality, 100 tons 8 in. c.i. water pipe, to Donaldson Iron Wks., Emaus, Pa.

ROCK, LIME ROCK, TAR PRIME, etc. — **Florida**—State Road Dpt., Tallahassee, B. M. Duncan, state hy. engr., to Roquemore Gravel Co., 1st Natl. Bank Bldg., Montgomery, Ala., 1,742 cu.yd. rock for Project 751 $5,522, 1,340 cu.yd. rock for Project 752, Walton Co., $4,248, 2,386 cu.yd. rock for Project 3-A, Okaloosa Co. $7,564; to Florida Limerock Sales Corp., Jacksonville, 18,000 tons lime rock on Rd. 15, Pinellas Co., $34,380; to Republic Creosoting Co., South End Water St., Mobile, Ala., 23,295 gal. tar prime for Rd. 218, Project 3-A, Okaloosa Co., $2,386; to Maranja Rock Co., Maranja, 17,000 tons lime rock for Rd. 8, Project 696, St. Lucie Co., $32,470; to Wood Preservative Mfg. Co., Jacksonville, 16,896 gal. tar prime for Rd. 8, Project 696, St. Lucie Co., $2,028; to Atlantic Refining Co., Candler Bldg., Atlanta, Ga., 68,550 gal. asphalt for Rd. 58, Project 711, Gadsden Co., $4,044; to Florida Gravel Co., Chattahoochee, 4,287 tons gravel for Rd. 58, Project 711, Gadsden Co., $8,403; to Standard Oil Co. of New Jersey, 26 Bway., New York, 33,792 gal. oil asphalt for Project 696, St. Lucie Co., $1,669; to Standard Oil Co. of Louisiana, 2134 St. Charles Ave., New Orleans, La., 204,095 gal. oil asphalt for projects in Walton, Okaloosa, Jackson, Holmes and Santa Rosa Counties, $8,897; to Mexican Petroleum Corp., Rhodes-Haverty Bldg., Atlanta, Ga., 8,799 gal. oil asphalt for Project 646, Franklin Co., $439; to Florida Crushed Stone Co., Bisbee Bldg., Jacksonville, 1,378 cu.yd. rock for Project 696, St. Lucie Co., $5,002; to Birmingham Slag Co., 2019 6th Ave. N., Birmingham, Ala., 400 cu.yd. rock, for Project 634 Jackson Co., $1,312; to Woodstock Slag Co., 2201 1st Ave. N., Birmingham, Ala., 1,852 cu.yd. rock for projects in Holmes and Okaloosa Counties, $5,892. Grand total $124,256. To Birmingham Slag Co., 2019 6th Ave. N., Birmingham, Ala., 3,553 cu.yd. rock for projects in Jackson and Santa Rosa Counties.

PIG LEAD—**Chicago, Ill.**—Dpt. P. Wks., City Hall, A. A. Sprague, comr., furnishing, delivering 100 tons pig lead at various city pipe yards, to M. Grossman, 2038 Nebraska Ave., at $3.19 per cwt., total $6,380 truck or rail. Noted Apr. 14.

REFINED TAR—**Chicago, Ill.**—Bd. P. Wks., City Hall, to W. R. Wood and Chester R. Davis, receivers for International Combustion Tar & Chemical Co., 2500 South Damen Ave., 300,000 gal. Class A and 50,000 gal. Class B refined tar delivered and applied on streets $33,740, 100,000 gal. Class A refined tar f.o.b. city vehicles at contractors plant $8,240, 50,000 gal. Class A refined tar f.o.b. contractors vehicles at contractors plant $4,320. Grand total $46,300. Noted Apr. 7.

WATER PIPE—**Opelousas, La.**—Mayor and Bd. Aldermen, furnishing 1 carload 4 in. and 1 carload 6 in. Class B 16 ft. watermains with fittings, valves, etc., to Amer. Cast Iron Co., 2930 North 16th St., fire hydrants and fittings, to Standard Mfg. Co., 846 Baronne St., New Orleans.

BITUMINOUS MATERIALS—**St. Paul, Minn.**—State Hy. Dpt., St. Paul, 20,482,000 gal. bituminous material on trunk highways, 847 mi.

Materials (Continued)

1st treatment, 1,231 mi. retreatment, to Motor Haulage Co., 1214 Northeast Marshall St., Minneapolis $13,063; to J. B. Craig Co., 410 New York Life Bldg., Minneapolis, $32,684; to Gaus-Culligan Co., 2385 University Ave., $32,094; to Rock Road Constr. Co., 5937 Rogers Ave., Chicago, Ill., $12,190; to Iowa Road Building Co., 1495 Keo Way, Des Moines, Ia., $21,621. Grand total $111,652. Noted Apr. 14.

PIPE—**Lathams Corners, N. Y.**—Municipality, 300 tons 6- to 10-in. c.i. water pipe, to R. D. Wood & Co., Florence, N. J.

GRAVEL—**Long Island City, N. Y.**—G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., 13,057 cu.yd. cementitious road gravel, to P. J. Lynch, 80 Hudson Ave., Haverstraw, $24,155. Noted Apr. 7.

PIPE—**Rhinecliff, N. Y.**—Municipality 100 tons cast iron water pipe, to Donaldson Iron Wks., Emaus, Pa.

BROKEN STONE, etc.—**St. George, N. Y.**—J. A. Lynch, pres. Richmond Boro, Boro Hall, 2,000 cu.yd. broken stone screenings, to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $3,700; broken stone chips Dist. 2, to J. J. Thompson, 54 Tompkins Ave., $12,480; broken stone and chips Dist. 3, to South Shore Coal & Building Material Co., Gifford Lane, $13,680. Grand total $29,860. Noted Apr. 21.

CONCRETE — **Oklahoma City, Okla.** — M. Peshek, city clk., 2,900 cu.yd. ready mixed concrete for sewer work, to Makins Gravel Co., Commerce Exch. Bldg., $15,312. Est. $17,000. Noted Apr. 28.

OIL—**Portland, Ore.**—City Purchasing Agent, 7,000 bbl. road oil delivered at plant to city trucks, to Standard Oil Co., Pacific Bldg., to Associated Oil Co., Portland Agency, to General Petroleum Corp., Woodlark Bldg., to Shell Oil Co., Chamber of Commerce Bldg., and to Gilmore Oil Co., 8th and 18th Sts., San Francisco, Calif., at $3.79 per bbl. each. Total est. $26,530.

CONCRETE PIPE—**Centralia, Wash.**—City Comrs., City Hall, 3,000 ft. concrete pipe for new water supply line, to Lewis County Concrete Pipe Co., Centralia, $4,920. Noted May 19.

ASPHALT, etc.—**Green Bay, Wis.**—State Hy. Comn., Green Bay, 1,444,000 gal. asphalt Type "C" 50-60 and 228,000 gal. Type E. Grade 2, to Standard Oil Co., 910 South Michigan Ave., Chicago, Ill., $54,023 and $13,543 respectively; 104,000 gal. tar Type B, to International Combustion Tar & Chemical Co., 2500 South Damen Ave., Chicago, Ill., at 8.62c. per gal. Total $8,965. Grand total $76,531. Noted May 5.

OIL ASPHALT, etc.—**Wyoming**—State Hy. Dpt., Cheyenne, 1,506,000 gal. oil and asphalt, to Standard Oil Co., 910 Michigan Ave., Chicago, Ill., $56,478; 1,393,000 gal., to White Eagle Refining Co., 606 Vandalia St., St. Paul, Minn., $60,942; 106,550 gal. asphalt, to Gilmore Oil Co., 3rd and 18th St., San Francisco, Calif., $7,375. Grand total $124,795. Noted May 5.

EQUIPMENT

PROPOSED WORK

STREET SWEEPERS, etc.—**Palo Alto, Calif.**—City Council purchasing 2 street sweepers, 10 motor trucks, 2 power water wagons, air compressor, also $6,000 of electrical equipment for Corporation Yard, destroyed by fire.

POWER HOUSE EQUIPMENT—**Tewkesbury, Mass.** — Commonwealth of Massachusetts, Dpt. P. Welfare, power house changes, incl. equipment at State Infirmary. $31,200.

DISTRIBUTOR—**Winona, Minn.**—A Baeuerlan, aud. Winona Co., rejected bids May 2, distributor for oil.

TANKS, etc.—**St. Louis, Mo.**—Arrow Realty & Investment Co., 4500 North Kingshighway, installing three 1,000 gal. underground tanks and 3 pumps for gasoline.

TANKS—**St. Louis, Mo.**—Delbet Investment Co., 1515 Branch St., installing three 1,000 gal. underground tanks for gasoline.

TANKS—**St. Louis, Mo.**—Sinclair Refining Co., 1301 Gratiot St., installing three 1,000 gal. gasoline tanks at 3727 Easton Ave.

TANKS and PUMPS—**St. Louis, Mo.**—Simon Lasky, 4293 Natural Bridge Ave., installing three 550 gal. underground tanks and 3 pumps for gasoline.

WATERWORKS EQUIPMENT — **Neepawa, Man.**—Manitoba Power Comn., 146 Notre Dame Ave., Winnipeg, plans waterworks equipment, incl. installation of fire underwriter's standard equipment for waterworks systems; also fire protection requirements. J. W. Bradley, City Hall, city clk. C. B. Hallwood, purch. agt. A. Trott, 146 Notre Dame Ave., Winnipeg, engr.

BIDS ASKED

TRUCK BODIES—**Los Angeles, Calif.**—June 7, by T. Oughton, city purch. agt., 6 rubbish truck bodies, steel with hydraulic hoist; Spec. 2794.

BOILER TUBES—**Chicago, Ill.**—June 8, by Dpt. P. Wks., City Hall, furnishing, delivering 1,400 ft. 4 in. O.D. x 20 ft. long, No. 9 L.W.G. seamless hot drawn boiler tubes for Mayfair Pumping Station, 4850 Wlison Ave.; 450 ft. 4 in. O.D. x 18 ft. long No. 9 B.W.G. seamless hot drawn boiler tubes for Central Park Pumping Station, 1015 South Central Park Ave.

PUMP—**Friend, Neb.**—G. A. Dreher, city clk., bids in June, turbine pump.

CASTINGS—**New York, N. Y.**—June 6, by M. F. Keeney, acting comr. Purchase, Municipal Bldg., metals and castings to Dpts. Correction, Parks-Bronx, Water Supply, Gas & Electricity and Fire Dpt.

CASTINGS—**New York, N. Y.**—June 6, by S. Levy, pres. Mnahattan Boro, Municipal Bldg., iron castings, Contr. 1; iron or high strength malleable iron castings, Contr. 2; steel or high strength malleable iron castings, Contr. 3.

MANUAL TRAINING EQUIPMENT, etc.—**Tiltonville, O.**—June 11, by Bd. Educ. Warren Consolidated Dist., B. Heil, secy., Tiltonville, manual training and chemistry laboratories.

TRACTOR—**Sioux Falls, S. D.**—June 8, by Auditor Minnehaha Co. 1 crawler type tractor.

GATE VALVES, etc.—**Toronto, Ont.**—June 28, by W. J. Stewart, mayor, City Hall Tender 38, 48 in. hand and electrically operated gate valves and 48 in. hydraulically operated gate valves for waterworks plant. $15,000 or more. R. C. Harris, City Hall, engr.

CONTRACTS AWARDED

ORNAMENTAL STREET LIGHTS — **Hagerstown, Ind.**—City, furnishing 36 ornamental street lights, to Westinghouse Electric Supply Co., 545 Madison St., Indianapolis. Est. $5,000.

PUMPING ENGINE—**Quincy, Mass.**—Metropolitan Dist. Comn., Boston, 1 vertical pumping engine, condenser type, and one non-clogging centrifugal pump, 15 m.g.c., for Quincy Pumping Station, South Metropolitan System, to Turbine Equipment Co. of New England, 80 Federal St., Boston, $6,390. Noted May 12.

PUMP—**Anoka, Minn**—City, W. Ridge, clk., pump and connection to Commonwealth Electric Co., 417 Bway., St. Paul, $1,450; constructing pump house, day labor. Noted Apr. 27.

EXPANSION CASTINGS—**Minneapolis, Minn.**—F. S. Gram, city purch agt., expansion castings for waterworks, to Crane Co., 400 3rd Ave. N., $1,681. Noted May 5.

CONTACT RAIL — **New York, N. Y.**—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, open hearth contact rail, to Seaport Contg. & Supply Co., 17 Battery Pl., $202,577. Noted May 26.

FOREIGN

Egypt, Cairo—June 30, by Minister Interior, supplying and erecting steel frame waterworks at Manfaulet surmounted by 300 cu.meter

England, Oxford—Oxford University, Vice Chancellor in charge, sketches Bodleian Library addition. $2,300,000, donated by Rockefeller Foundation, toward construction costs.

Union Socialist Soviet Republics—Soviet Govt., c/o Amtorg Trading Co., 261 5th Ave., New York, plans aluminum plants, incl. one using alapaevsk bauxites in Ural Region, bobriky clay in Moscow, nephelite at Klibini, on Kola Peninsula, kaolin at Ukraine, and alunite at Transcaucasia, to exceed $50,000,000; also silicate brick plants, 84,000,000 bricks annually, 2 fire brick plants, each cost $15,000,000, cement plant, $5,700,500, by day labor and technical aid contracts, at Orsk, in Middle Voga Region.

U. S. S. R., Balkhash—Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, will build hospital day labor. To exceed $1,000,000.

U. S. S. R., Boorly Tyula—Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, plans hospital. To exceed $1,000,000.

U. S. S. R., Orsk—Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, locomotive works in Middle Volga Region, by day labor and technical aid contracts. $100,000,000. Completion late 1933.

U.S.S.R., Tiumen—Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York plans in progress textile and felt mills, incl. canvass mill, rope and twine mill, coarse and fine mills and felt boot factory. $20,000,000.

Uruguay, Montevideo—July 11, by Secretary Port Administration, 8 electrically operated freight elevators and 8 electrical cranes semi-portal type.

Commercial Buildings

PROPOSED WORK

Calif., Berkeley—Trinity Methodist Episcopal Church, 2362 Bancroft Way, sketches by G. Rushforth, 21 San Mateo Ave., 2 or 3 story, rein.-con. community center, Bancroft Way. $150,000.

Calif., Palos Verdes—E. C. Boynton, G. W. King and O. L. Haymond, 307 California Reserve Bldg., military academy on 20 acre site, 1st unit includes 3 concrete buildings. $300,000.

Calif., San Francisco—Bohemian Club, Taylor and Post Sts., sketches by L. P. Hobart, Crocker Bldg., 6 story, basement, Class A brick, steel club, Taylor and Post Sts. $600,000.

Conn., Greenwich—Town, J. W. Curtiss, Bd. Educ., L. M. Andrews, supt., Field Point Rd., bids in July general contract 3 story, basement, brick, stone, steel high school, plain found. $350,000. Guilbert & Betelle, 20 Branford Pl., Newark, N. J., archts. Eugene Powers & Son, 24 Branford Pl., Newark, N. J., structural engr. Noted Feb. 18.

Ill., Chicago—Chicago Boys Club, Inc., 120 South La Salle St., sketches 124½ x 190 ft. boys' club, West 34th St. and Emerald Ave. Site purchased.

Ill., Chicago—St. Paul Evangelical Lutheran Church, H. Kowert, pastor, 1301 North La Salle St., sketches by Miller & Wallace, Inc., 222 West Adams St., 600 seating capacity, stone, terra cotta church and parish house, 1301 North La Salle St. $160,000.

Ia., Cedar Rapids — Iowa State Bd. Educ., Des Moines, W. H. Gemmill, secy. Finance Com., plans by Proudfoot, Rawson, Souers & Thomas, 810 Hubbell Bldg., Des Moines, and bids about June, teachers' college. $200,000.

Me., Cape Elizabeth—Town, Bd. Selectmen, soon takes bids 2 story, basement, 60 x 140 ft., brick, stone high school, plain found. $150,000. Miller & Beal, Inc., 465 Congress St., Portland, archts. Noted Apr. 14.

Mass., Boston—See "Unclassified."

Mass., Brockton—Greek Orthodox Church, c/o C. T. Olson, archt., 101 Main St., soon takes bids 2 story, basement, brick, steel, concrete church, concrete found., 32 Warren Ave. $150,000 or more. Noted May 12.

Mass., Jamaica Plain—First National Bank of Boston, 67 Milk St., Boston, reconstructing 2 story, basement, brick, stone, steel, concrete bank, plain found., 677 Centre St. $150,000. Private plans.

Mass., Wellesley—Town, School Bd., 2 story, basement, brick school, North School Dist. To exceed $150,000. Architect not appointed.

Mo., Columbia—City, J. Gordon, mayor, plans by H. S. Bill, 1008 East Bway., and Eckel & Aldrich, Corby Bldg., St. Joseph, assoc. archts., and soon takes bids 2 story, basement, brick, rein.-con., stone, city hall. $100,000 bonds voted and proposed to use $125,000 from water and light plant surplus passed at election on Apr. 5. Noted Feb. 18.

N. J., Fort Lee—Fort Lee Athletic Club, Lemoine Ave., bids in fall, 2 story, basement, brick, steel club house. $150,000. **Maturity in fall.** G. W. Dexter, 201 Main St., archt.

N. J., Lakewood — Georgian Court College, Lakewood, plans 1 or more dormitories replacing Raymond Hall, destroyed by fire. $150,000. **Maturity indefinite.**

N. J., Lyndhurst—C. Daiker, archt. and engr., 318 Riverside Ave., soon lets general contract altering and constructing 1 story, basement, brick, steel, stone masonic temple addition Riverside Ave., for Adoniram Masonic Assn., Inc., 318 Riverside Ave. $150,000.

N. J., Newark—W. E. Lehman, archt., 972 Broad St., soon lets contracts altering and constructing 4 story, basement, brick, steel, home addition, High and Kinney Sts., for Daughters of Beth Israel Home for the Aged, J. Stern, chn., 651 High St. $200,000. Noted Apr. 28.

N. J., Newark—Fanning & Shaw, archts., 49 Ward St., Paterson, soon lets general contract altering and constructing 2 story, basement, brick, steel, stone church addition, Mulberry St., for St. John's Roman Catholic Church, 22 Mulberry St. $150,000.

N. J., Newark—Roebling Coal Co., Inc., M. Rosenfeld, in charge, 134 Frelinghuysen Ave., rejected bids 2 story, basement, brick, steel office, Frelinghuysen Ave. $150,000. J. B. Acocella, 9 Clinton St., archt. May go ahead with a smaller project at later date. Noted Apr. 14.

N. J., Passaic—D. Zaritzky, 695 Main Ave., and Preiskel & Skvarla, archts., 629 Main Ave., rejected bids May 20, general contract rebuilding 3 story, basement, brick, steel store, office, Main Ave., Garden and Henry Sts. $150,000. Noted May 12.

N. J., Perth Amboy—Bd. Educ., 261 State St., Junior and Senior High School, 3 story, basement, brick, stone, steel, Chamberlain, Cleveland, Colgate and Dorothy Ave. $150,000. **Muturity indefinite.**

N. J., Piscatawaytown—Bd. Educ., Raritan Twp., 2 story, basement, brick, steel, terra cotta school. $200,000 bond issue to be voted on in August. A. Merchant, 1 Elm Row, New Brunswick, archt. Noted Dec. 24.

N. J., Point Pleasant—Bd. Educ., rebuilding high school and auditorium, Trenton Ave. $150,000. **Maturity soon.**

N. J., Ridgefield Park—B. F. McGuire, archt., 705 Linden Ave., Teaneck, bids in August, general contract altering and constructing 3 story, basement, brick steel club house addition, Bergen Ave. for Knights of Columbus. $150,000. Noted Nov. 26.

N. J., Teaneck — Township Com., Township Hall, two 2 story, basement, brick, steel library wings, Teaneck Rd. $150,000. **Maturity indefinite.** Architect not appointed.

N. J., Wood Ridge—First Baptist Church, S. B. Scales, pastor, plans by F. C. Doriot, 401 North St., 1 story, basement, brick, steel church, Valley Blvd. $150,000. Noted Apr. 28.

N. Y., Caledonia—Bd. Educ. plans by Bly & Lyman, 505 Delaware Ave., Buffalo, high school annex, incl. gymnasium, auditorium. $165,000.

N. Y., Honeywood (mail Staten Island)—Bd. Educ., 500 Park Ave., New York, plans by W. C. Martin, Flatbush Ave. extension and Concord St., Brooklyn, altering P. S. 36, Jefferson Blvd. To exceed $150,000.

Commercial Buildings (Continued)

N. Y., New York—Eighty-Five Park Avenue Corp., c/o A. Darrin, archt., 101 Park Ave., altering and consolidating into one unit ten 4 and 5 story apartments, incl. shops, restaurant, Park Ave. and 39th St. To exceed $150,000.

N. Y., Oneonta—State Dpt. Health, State Office Bldg., Albany, soon takes bids tubercular sanitorium, Murray Hill site. $1,000,000.

N. Y., Pleasantville—Union Free School 8, sketches extending Thornwood School, Kensico Rd. $150,000. Engineer and architect not appointed. Election on proposition June 7.

N. Y., Rensselaer—Common Council city hall, $500,000. J. Quinn, city engr. Architect not appointed.

N. Y., West Winfield—West Winfield Central School plans by Gouge & Ames, 70 Genesee Bldg., and Kinne & Frank, 7 Hopper St., Utica, assoc. archts., 2 story, 200 x 200 ft. central school, Main St. $250,000.

N. C., Durham—Louisburg College Trustees, Louisburg, plans by G. M. Nelson, Durham, 8 story medical arts building, incl. cafeteria, pharmacy, barber shop, auto storage (in basement), offices, 300 seating capacity auditorium on roof, East Chapel Hill and Roney Sts.

O., Chillicothe—Owner, c/o G. Kenney, archt., 37 South Main St., sketches approved and takes bids about Aug. 14, 9 story, basement, 50 x 138 ft., brick, concrete apartment, plain found. $300,000.

O., Cleveland—Bd. Educ., F. G. Hogen, dir., plans by John H. Graham & Co., Guardian Bldg., 3 story, brick, steel, concrete school addition, 5160 Fowler Ave. $210,000.

O., Columbus—Mobys, M. Greenburg, genl. mgr., 168 North High St., plans by Carmichael & Millspaugh, 7 East Long St., 4 story, basement, 147 x 187½ ft., concrete, black marble, Bedford limestone store, Spring and High Sts.

Okla., Stillwater—Oklahoma Agricultural & Mechanical College, c/o State Bd. Agriculture, H. B. Cordell, chn., Oklahoma City, sketches by Layton, Hicks & Forsyth, 906 Braniff Bldg., Oklahoma City, two 3 story, basement boys' and girls' dormitories, rein.-con., brick, steel.

Pa., Phila.—Bell Telephone Co., 1835 Arch St., plans by J. T. Windrim, Commonwealth Bldg., 12 story exchange and office building, 19th and Race Sts. $500,000.

Pa., Phila.—Schraffts Stores, 59 West 23rd St., New York City, 4 story, fireproof store for manufacturing and selling candy, 13th and Chestnut Sts. $500,000.

Pa., McKeesport—Bd. Educ., J. B. Ritchey, supt., Ariel Bldg., sketches completed by C. R. Moffitt, 304 Masonic Bldg., 20 room, brick, steel industrial school, rear of present high school. $600,000. **Maturity indefinite.** Noted Oct. 1.

Pa., Phila.—Philosophical Society plans by P. P. Cret, Architects Bldg., new building, 16th St. and Parkway. $1,000,000.

Pa., Pittsburgh — University of Pittsburgh, J. C. Bowman, chn., plans by C. Z. Klauder, 1429 Walnut St., Phila., and Tenny & Ohmes, consult. archts., 101 Park Bldg., New York, Heinz Chapel Building, 1 story, basement, 48 x 124 ft., rein.-con., limestone, steel trusses, Bellefield Ave. $600,000. **Maturity indefinite.**

Vt., Bellows Falls — Windham Corp., H. Bowles, pres., soon takes bids 3 story, basement, 100 x 130 ft., brick, stone hotel, store, plain found., Main St. $150,000-$200,000. Harper & West, 131 State St., Boston, Mass., archts.

Va., Morrison—Mariners' Museum, c/o H. L. Ferguson, Newport News Shipbuilding & Dry Dock Co., Newport News, making plans outdoor museum on 850 acre site, incl. shop for building model ships, reproductions, etc., library, other structures. Preliminary site operations, grading, roadway in progress. $10,000,000.

Wis., Green Bay—Catholic Church of Annunciation, W. Kiernan, pastor, 115 South Jefferson City, brick, stone church, school. $150,000. Architect not appointed.

Wis., Green Bay—Bd. Educ., W. W. Kelly, pres., brick, rein.-con. school. Architect not appointed.

Wis., Marinette—Bd. Educ., V. A. Lundgren, pres., brick, rein.-con. school. Architect not appointed.

Ont., Toronto—Separate School Bd., 477 Jarvis St., plans by J. M. Cowan, 200 St. Clarens Ave., 2 story, basement, concrete, brick, steel 20 room addition to St. Paul's School. $200,000.

Ont., Toronto — Separate School Bd., 477 Jarvis St., plans by J. M. Sowan, 200 St. Clarens Ave., 6 room additions to Blessed Holy Name and St. John's Schools; 4 room additions to Corpus Christi, Holy Cross, St. Cecilia's, St. Clare's, St. James, St. Mary's, St. Matthew's, St. Monica's and St. Rita's Schools; 8 room additions to St. Brigid's, St. Joseph's, St. Dunstan's, and St. Thomas Aquinas Schools; 5 room addition to Sacred Heart School; 3 room addition to St. Helen's School, all foregoing, mostly 2 story, steel, concrete brick, stone construction. $700,000.

Ont., Toronto—Upper Canada College, Avenue Rd. and Lonsdale Rd., plans by Mathers & Haldenby, 96 Bloor St. W., and soon takes bids 1, 2 and 3 story, brick, stone, steel, concrete school additions, incl. boys' building service building, gymnasium building, and artificial ice rink, Lonsdale Ave. $400,000.

Ont., Toronto—Toronto Hydro-Electric System, 225 Yonge St., revised plans by Chapman & Oxley, Sterling Tower, and Owner's Staff, and soon takes new bids 9 story office building. $1,000,000. Former bids rejected. Noted Apr. 14.

Que., Lac au Saumon — Roman Catholic Parish, new church. $150,000. Architect not appointed.

BIDS ASKED

Calif., Sacramento—See "Contracts Awarded."

Conn., New Haven — June 6, by First Methodist Church, G. S. Lackland, pastor, 1 story, basement, 80 x 150 ft., brick, stone, Temple and Elm Sts. $250,000. Svent & Wener, 1701 Arch St., Phila., Pa., archts. Noted Dec. 3.

Ga., Atlanta—June 1, by Loew's Theatre, 1540 Bway., New York, reconstructing Loew's Grand theatre. $250,000. T. W. Lamb, 701 7th Ave., New York, archt. Weinberger, Weishoff & Vogel, 1350 Bway., New York, structural engrs.

Ill., Aurora—Bishop Old Peoples Home, G. George, trustee, bids about July 15, Old Peoples Home, 2 story, basement, rein.-con., brick. $300,000. G. S. Elmslie, 122 South Michigan Ave., Chicago, archt. Noted Feb. 4.

Ind., Terre Haute—July 1, by Indiana State Teachers College, 217 North 6th St., H. Benbridge, secy., rein.-con., steel, stone college, containing 8th Grade High School, gymnasium, library, laboratories, Hemingway Park. $400,000. Miller & Yeager, 819 Ohio St., archts. Noted Jan. 28.

La., New Orleans—June 13, by Bd. Administrators of Charity Hospital, A. Vidrine, supt., convalescent hospital. Weiss, Dreyfous & Seifrth, Inc., 600 Maison Blanche Bldg., archts.

Mass., Brookline—June 4, by New England Telephone & Telegraph Co., 50 Oliver St., Boston, and R. C. Sturgis, archt., 120 Boylston St., Boston, altering and constructing 3 story, basement, 40 x 180 ft., brick, stone addition to Aspinwall Exchange, plain found. $150,000. French & Hubbard, 210 South St., Boston, engrs. Noted Feb. 25.

Mass., North Dighton—St. Joseph's Parish, J. Shay, pastor, taking bids 1 story, basement, brick, stone church. $150,000. Maginnis & Walsh, Statler Bldg., Boston, archts. Noted May 19.

Mass., Pocasset — June 10, by Comrs. Barnstable Co. ,Court House, Barnstable, altering and constructing 3 story, basement, brick, stone sanatorium addition, plain found. $150,000.

Mass., Springfield—Springfield National Bank, E. J. Wheeler, pres., 1531 Main St., taking bids rebuilding 5 story bank and store. $150,000. MsClintock & Craig, 458 Bridge St., archts. Noted Apr. 21.

Mo., St. Louis—June 28 (extended date), by Bd. P. Serv., City Hall, general contract (1st unit), 7 story, basement, 322 x 493 ft., rein.-con., steel, brick, stone municipal auditorium $3,000,000. Total $5,000,000. Plaza Commission, Inc., c/o LaBeaume & Klein, 716 Amer. Trust Bldg., engrs. and archts. Noted May 26.

N. J., Hackensack—H. Pasternack, 42 Market St., Passaic, taking bids general contract 2 story, basement, brick, steel, limestone, 194-6 Main St. $150,000. F. Pirrone, 104 Midland Ave., Garfield, archt.

N. J., Newark—Walter Snyder, archt. and engr., 790 Broad St., taking bids general contract 4 story, basement, rein.-con. commercial building, South 12th St., for Cosmos Realty Co., c/o architect. $150,000.

N. J., Newark—Bd. City Comrs., City Hall, bids about June 15, altering 2 story, basement, brick, steel, fire house into police station, Sanford Ave. and Palm St. $150,000. F. Grad, 1025 Broad St., archt. Noted Jan. 14.

N. J., Passaic—J. T. Camlet, archt., 26 Piaget Ave., Clifton, taking bids altering and constructing 2 story, basement, brick, steel, stone, home addition, Monroe St., for Polish Peoples Home, 1 Monroe St. $150,000. Noted Apr. 21.

N. J., Penns Grove—C. W. Bolton & Son, archts., 1505 Race St., Phila., Pa., bids about June 5, church, Delaware Ave., for Bethel Methodist Protestant Church, J. C. Cody, pastor, Pitman St. near Delaware Ave. Noted May 19.

N. Y., Buffalo—June 30 (extended date), by Adjutant General, Div. Military and Naval Affairs, Albany, State Artillery Armory; adv. E. N.-R. June 2. Noted May 26.

N. Y., Geneva—June 16 (extended date), by Commissioner Education, State Education Bldg., Albany, repairing and altering buildings New York State Agricultural Experiment station; adv. E. N.-R. June 2.

N. Y., Ithaca—June 13, by Bd. Supervs. Tompkins Co., 3 story, basement, limestone, steel, brick, court house. J. Lakin, Baldridge Savings Bank Bldg., archt. Noted Nov. 12.

N. Y., Middleburg—Bd. Educ. bids about Aug. 1 on revised plans school. To exceed $150,000. A. F. Gilbert, 358 5th Ave., New York, archt. Noted Apr. 28.

N. Y., Troy — June 14, by Adjutant General, Albany, altering and repairing New York State Armory, 15th St., also new addition.

R. I., South Kingston (mail Kingston)—Town, Superintendent Schools, bids about June 1, altering and constructing 2 story, basement, brick, stone addition to Wakefield Grammar School, plain found. $150,000. W. R. Walker & Son, 49 Weybosset St., Providence, archt. Noted May 19.

Ont., Toronto—See "Contracts Awarded."

CONTRACTS AWARDED

Calif., Sacramento — Bd. Educ., C. Hughes, secy., general contract Sacramento Junior High School, to Axevedo & Sarmento, 930 "O" St., $120,700. Brick work, roofing, waterproofing, plastering, sheet metal, glass, glazing, marble, tile, painting, ventilating, electric work are under separate contracts. Total est. $300,000. Noted Apr. 28.

D. C., Wash.—American Pharmaceutical Assn., S. L. Hilton, 22nd and L Sts. chn., white marble club, incl. research laboratories, library, museum, and national headquarters, to G. A. Fuller Co., Munsey Bldg. Est. $400,000. Noted July 11, 1929.

Ill., Chicago—Albert Kahn, Inc., archt., 1000 Marquette Bldg., Detroit, Mich., 1 and 4 story, 100,000 sq.ft. floor space, rein.-con., brick, steel exposition and assembly building, plain and woodpile founds., to Lundoff-Bicknell Co., 100 North La Salle St., for General Motors Corp., General Motors Bldg. Est. $1,000,000. Noted May 5.

Kan., Topeka—Tinkham Veale, 911 Kansas Ave., for Westboro Mart, 1 and 2 story, basement, 65 x 150 ft., terra cotta, stucco, brick, Huntoon and Oakley Sts., to Lundgren & Carlsen, 213 Jackson St.

Mass., Cambridge—Owner, c/o F. S. Harlow, archt., 4 Brattle St., 4 story, basement, brick, stone apartment, plain found., 57-59 Frost St., to Thibeau & Comeau, 4 Brattle St., Cambridge, Est. $150,000.

Mass., Cohasset—St. Anthony's Rectory, J. P. Lawles, pastor, 3 story, basement, limestone rectory, plain found., South Main St., to C. F. W. Schafer, North Scituate. Est. $150,000.

Mich., Wyandotte—E. Hass, secy. Bd. Educ., 3 story, basement, brick, steel, rein.-con. school, plain found., to H. G. Christman-Burke Co., Fisher Bldg., Detroit. $157,900. Noted May 9 Daily.

Minn., Glencoe—Bd. Educ., E. H. Jungclus, clk., general contract 2 story, basement school, to J. J. Juul, Hutchinson, $123,629. Noted May 12.

Neb., Omaha—Supreme Forest Woodmen of World Circle, 424 North 38th St., general contract 3 story, 110 x 150 ft., stone office, to P. Kiewit Sons Co., 1024 Omaha Natl. Bank Bldg. Est. exceeds $150,000. Bids about June 3, for plumbing, heating and electrical work. Noted Mar. 10.

N. J., Maplewood—W. E. Lehman, archt., 972 Broad St., Newark, general contract 1 story, basement, brick, steel store, to A. A. LaFountain, Inc., Beech St., Hackensack, for Walnut Hale Realty Co., c/o architect. $150,000. Noted May 5.

O., Columbus Grove—Bd. Educ., 2 story, basement, 52 x 97 ft., brick, concrete high school addition, incl. gymnasium, auditorium, to Heisey & Debout, Van Wert, $48,225; plumbing and heating, to Williams Bros. Co., Lima, $13,123; electrical equipment, to Barney-Joy Eng. Co., Lima, $3,867. Grand total $65,215.

Pa., East Stroudsurg—St. Matthews Roman Catholic Church, J. T. Butler, pastor, 201 Broadhead Ave., Stroudsburg, 1 story, 54 x 105 ft. church, 3 story, 35 x 105 ft. school, 2 story, 36 x 60 ft. convent, brick, limestone, steel, to F. J. Cuppels, 599 Market St., Kingston.

Pa., Oil City—Bd. Educ., R. M. Stanton, pres., Veach Bldg., general contract, Senior High School, 4 story, basement, 103 x 198 ft., brick, hollow tile, stone, steel, Graff St., to L. O. Bouquin Co., Traymore Bldg., $162,900; plumbing, to Arick & Eltringham, DuBois, $11,998; electrical work, to Northwestern Electric Co., Erie, $10,498. Grand total $185,396.

Pa., Scranton—Secretary Scranton School Dist., general contract Junior High School, 3 story, basement, 258 x 258 ft., face brick, limestone, to W. Steele & Sons Co., 15th and Cherry Sts., Phila., $897,298; heating and ventilating, to Huffman-Wolfe Co., 11 Rittenhouse St., Phila., $148,788; plumbing, to John Borden & Sons, 607 North 19th St., Phila., $50,738; electrical work, to Conestaga Electric Co., Conestaga, $53,600. Grand total $1,150,424. Noted Apr. 21.

R. I., Woonsocket—St. Vincent De Paul's Society, c/o J. F. Hogan, archt., Grosvenor Bldg., Providence, 3 story, basement, brick, stone old folks home, plain found., to R. J. MacIntyre, 6 Fairoaks Ave., Providence, est. $150,000; heating and plumbing, to J. F. Martin Co., Spencer St., Pawtucket, electrical work, to Butler & Perry, 7 Pleasant St., Pawtucket, est. $25,000. Noted Mar. 31.

Wash., Seattle — University of Washington, general contract 4 story, 60 x 108 ft. law school, with 40 x 50 ft. wing, on University campus, to Neil McDonald, Lloyd Bldg., $285,975. Noted Apr. 21.

Man., Winnipeg—Carter-Halls-Aldinger Ltd., general contractors Royal Bank Bldg., marble and tile for auditorium, to Memorial Marble & Tile Co. Ltd., Wall and Wellington Sts.; rein.-con, to Cowin & Co., Ltd., Pacific and Yeoman Sts.; ornamental iron, to Vulcan Iron Wks. Ltd., Point Douglas, Winnipeg; cut stone to Allan & Grant, St. Boniface, to West Stone Co. Ltd., Winnipeg, to Gillis Quarries, Richard and Spruce Sts. and to Tyndall Quarry Co. Ltd., 1591 Erin St.; milwork to Brown & Rutherford, Sutherland and Buchanan Sts.; roofing and sheet metal, to Western Steel Products Ltd., St. Boniface; electrical work, to Schumacher-Mackenzie Ltd., 334 Main St.; plumbing and heating, to Bowyer & Boag Ltd., 45 Olivia St. Noted Mar. 3, under "Contracts Awarded."

Commercial Buildings (Continued)

Ont., Toronto—Adanac Constr. Co., 330 Bay St., 3 story, basement, brick, steel apartment, Lake Shore Rd., separate contracts. $150,000. V. L. Morgan & Co., 1454 A Yonge St., archts.

Industrial Buildings

PROPOSED WORK

Calif., Visalia — DEHYDRATION PLANT — New York Interests, c/o F. E. Bowden, 2011 Clay St., Fresno, dehydration plant, 80 to 90 ton capacity fruit or vegetables per day. $50,000.

Calif., Wilmington — POWER PLANT — Los Angeles Water & Power Co., 207 South Bway., Los Angeles, power plant. $61,000. $4,172,600 to be set aside in 1932-1933 budget for project. H. C. Gardett (power plant), 207 South Bway., Los Angeles, engr.

Conn., Southington — PRINTING PLANT — Southington Printing Co., F. J. Galiette, Southington, brick, Center Pl. $40,000. Architect not appointed.

Ill., Chicago — STORAGE WAREHOUSE — Herrman Warehouse Co., 900 Bliss Ave., rebuilding storage warehouse, destroyed by fire, Goose Island. To exceed $150,000.

Ill., Waukegan—FACTORY—D. T. Alschuler, 713 North Sheridan Rd., sketches 4 story, irregular sized factory. $50,000. Architect not appointed.

Ind., Laporte—POWER PLANT—City Council adopts plans constructing brick, steel light plant. $100,000.

Ia., Sioux City—POWER PLANT—Sioux City Gas & Electric Co., remodeling Big Sioux Power Plant from coal to gas burning, also 8 mi. gas mains. $100,000. Private plans.

Kan., Lawrence—SHOPS—Haskell Institute, c/o Dpt. Indian Affairs, Wash., D. C., sketches, concrete, brick, steel shops. $40,000.

Mass., Fall River—FACTORY—J. Dondis, 1313 Highland Ave., factory, Palmer St. $40,000-$50,000. Architect not appointed.

Mass., South Hadley—BOILER HOUSE—Mount Holyoke College, M. E. Wooley, pres., soon takes bids 1 story, brick boiler house, plain found. $40,000. H. French, 210 South St., Boston, engr. Noted Dec. 17.

Mo., Doniphan—HYDRO-ELECTRIC DEVELOPMENT—Current River Power Co., Kansas City, plans hydro-electric development above here, combined output 26,000 hp., consisting 3 dams in Current River, one at Hargus Eddy, $4,160,000; one at Mill Creek $3,500,000, and one at Blair Creek. Total $7,660,000. Federal Power Comn. granted preliminary permit.

Mo., St. Louis — BAKERY, etc. — Kroger Grocery & Baking Co., A. S. Grogg, genl. mgr., 3801 Vista Ave., and 35 East 7th St., Cincinnati, O., revised plans by E. E. Neimann, 3816 Shaw Ave., 4 story, basement, 85 x 190 ft., and 1½ story, 43 x 63 ft. bakery and garage, 1311 South 39th St. $700,000. Noted Mar. 10.

N. J., Trenton — FACTORY — American Tobacco Co., 111 5th Ave., New York, plans by L. S. Kaplan, 33 West State St., factory, Virginia and Grand Aves. $200,000.

N. J., Woodbridge—FACTORY—B. Farea, 59 Avenel St., bids in July general contract altering and constructing 2 story, basement, brick, steel addition, Wolf Pl. and Avenal St. $40,000. E. C. Wierzbicke, 175 Smith St., Perth Amboy, archt. Noted Jan. 21.

N. Y., Brooklyn—CAR WASHING PLANT, etc.—Brooklyn and Queens Transit Corp., 385 Flatbush Ave., soon takes bids general and separate contracts 1 story, 25 x 195 ft. car washing plant and 1 story, 25 x 58 ft. storage building, Bway. and Jamaica Ave. H. J. Kolb, 385 Flatbush Ave., archt.

N. Y., Brooklyn—SHOP, etc.—Harvey Development Corp., I. Silverman, in charge, 2075 86th St., plans by A. Goldberg, 164 Montague St., 1 story, brick, concrete shop, service station, garage, Coney Island Ave. and Avenue L.

N. Y., Brooklyn—DAIRY—Holland Farms, 319 Blake Ave., bids after November, general and separate contracts, altering and constructing 2 story top addition. H. L. Alper, 1448 East 26th St., archt.

N. Y., Brooklyn — FACTORY, etc. — Mason Avenue and Mogenheimer Mfg. Co., C. F. Hang, pres., 22 Henry St., sketches by H. E. Magnuson, 205 East 42nd St., New York, 5 story, 90 x 151 ft. factory and storage, 25th St. and 4th Ave. $200,000.

N. Y., Brooklyn — SERVICE GARAGE — Rugby, Inc., c/o E. Greenberg, 914 45th St., sketches by M. N. Weinstein, 93 Court St., 1 story, 100 x 100 ft. service garage, 59th St. and West 23rd Ave. $40,000.

N. Y., Brooklyn—SHOP and SERVICE STATION—Rita Epstein, 271 Madison Ave., plans by T. Goldstone, 191 Joralemon St., 1 story, 40 x 60 ft., brick, concrete, Remsen St. and Kingshighway.

N. Y., Brooklyn—MARKET—H. Silver, 499 Penna. Ave., plans by S. Millman & Son, 1780 Pitkin Ave., 1 story, 40 x 97 ft. market, incl. refrigeration, Livonia and Sheffield Aves.

N. Y., Brooklyn—SHOP, etc.—Sarit Traders, Inc., 271 Madison Ave., sketches by T. Goldstone, 191 Joralemon St., 40 x 137 ft. shop and auto laundry, Kings Highway and East 91st St.

N. Y., Brooklyn—SHOP—Southern Lumber Co., P. Applebaum, in charge, 771 Atlantic Ave., plans by I. Primost, 214 Throop Ave., altering and constructing 3 story, basement, brick shop extension, Atlantic and Waverly Aves.

N. Y., Long Island City—GARAGE—Chalrin Realty Corp., 163-18 Jamaica Ave., plans by M. Klein, 65 Court St., Brooklyn, 1 story, 40 x 94 ft. service garage, 44th St. and 25th Ave. 40,000, incl. equipment.

N. Y., Jamaica — REPAIR SHOP — N. Moncrief, 110-31 153rd St., bids after Oct. 15, separate contracts 1 story, 38 x 100 ft. repair shop, 111th Rd. and 153 West 155th St. Noted Jan. 28.

N. C., Charlotte — AUTO DISTRIBUTING PLANT—Thomas Cadillac-Oldsmobile Distributing House, G. C. Thomas, pres., auto distributing plant to house all activities of company who represent Cadillac, Oldsmobile and La Salle.

N. C., Concord—LUMBER PLANT, etc.—F. C. Niblock Co., Concord, rebuilding, repairing plant and storage, recently damaged by fire. $40,000.

O., Franklin — PAPER MANUFACTURING, etc.—Chaney Pulp & Paper Co., replacing 2 story, boiler house and manufacturing plant, destroyed by explosion.

Ore., Salem — POWER PLANT — State Bd. Control, received no bids May 12 power plant at penitentiary. $150,000. Noted Apr. 21.

Pa., Phila.—MANUFACTURING — National Casket Co., 2043 Arch St., manufacturing building, 1519-21 Fairmount Ave. $40,000.

Tex., Houston—MANUFACTURING PLANT—Simplex Mfg. Co., Post Dispatch Bldg., c/o H. H. Ford, pres., soon lets contract cotton picking machinery manufacturing plant. $500,000.

Va., Richmond—WAREHOUSE—Dpt. P. Wks., 2 story, 77 x 228 ft., warehouse, to City Building Corp., Builders Exch. Bldg. Contractor soon lets contract for steel and corrugated aluminum siding. Noted Apr. 21.

B. C., Port Alberni—POWER HOUSE—National Utilities Corp. Ltd., Port Alberni, subsidiary of British Columbia Power & Gas Co., Vancouver, soon takes bids steel frame power house and plant. $70,000. Private plans.

N. S., Halifax—PLANT—Indian Path Mines Ltd., E. Hart Nichols, pres., soon takes bids tungsten concentrate production plant. $50,000.

Ont., Courtland—PLANT—Drimilk Products Ltd., c/o Borden Milk Co., 110 Hudson St., New York, plans either to rebuild plant recently destroyed by fire or enlarge plants at Tilsonbury and Staffordville. **Maturity indefinite.**

Ont., Hamilton—PLANT—Dominion Glass Co., Chapple St., plant addition. $40,000, incl. equipment.

Ont., Washago — BAKERY — A. N. Denault Bakery. $40,000. **Maturity indefinite.**

Ont., Welland — PLANT — American Manganese Steel Co. plans plant. $500,000.

Que., Montreal—PLANT—Edward MacBean & Co., Ltd., W. H. Carr, mgr., Glasgow, Scotland, oilskin and insulating tape manufacturing plant. $50,000.

Sask, Saskatoon—REFINERY—Hi Way Refineries Ltd., Regina, sketches petroleum refinery. $40,000, incl. equipment.

BIDS ASKED

Colo., Pueblo—RAIL MILL—See "Contracts Awarded."

Ky., Mayfield — PLANT — See "Contracts Awarded."

N. H., Seabrook—FACTORY—Owner, c/o C. V. Badger, archt., 50 Merrimack St., Haverhill, Mass., taking bids 1 story, 50 x 160 ft., brick, timber. $40,000. Noted May 26.

N. J., Montclair—AUTO SERVICE STATION—F. P. Friedman, archt., 9 Clinton St., Newark, bids about June 15, general contract 1 story, basement, brick, steel, Bloomfield Ave. and Valley Rd., for Globe Realty Co., 790 Broad St., Newark. Est. $40,000. Noted May 12.

N. Y., Brooklyn—STORAGE—C. Hobacker, Glenmore Ave. and Berriman St., bids after Nov. 1, separate contracts altering and constructing 1 story addition, Glenmore Ave. and Berriman St. W. C. Winters, 2772 Fulton St., archt. Noted May 12.

N. Y., Brooklyn—WAREHOUSE—See "Contracts Awarded."

N. Y., Brooklyn—STORAGE—See "Contracts Awarded."

N. Y., Brooklyn — MILK PLANT — W. M. Evans Dairy Co., 246 Gates Ave., taking bids general and separate contracts 3 story, basement, extension, Elders Lane and Fulton Sts. L. Lauritzen, 356 Fulton St., archt. Noted May 19.

N. Y., Long Island City—POWER HOUSE—National Sugar Refining Co., 56th Ave. and West 2nd St. taking bids, altering and constructing 52 x 62 ft. addition, 56th Ave. and West 2nd St. L. T. Bromfield, c/o owner, engr.

N. Y., New York—GARAGE—See "Contracts Awarded."

N. Y., New York—STORAGE—See "Contracts Awarded."

O., Sandusky—MANUFACTURING PLANT—See "Contracts Awarded."

Pa., Corry—DAIRY—Model Dairy Co., A. Gulick, in charge, bids about June 1, 1½ story, basement, 80 x 100 ft., brick, tile, concrete, Smith and West Wayne Sts. Braziell & Anderson, 309 4th Ave., Pittsburgh, archts.

Pa., Phila.—FACTORY and STORAGE—See "Contracts Awarded."

CONTRACTS AWARDED

Colo., Pueblo—RAIL MILL—Minnequa Plant of Colorado Fuel & Iron Co., c/o L. E. Quigg, genl. supt., rebuilding mill to handle larger and heavier rails, own forces and engineers. $100,000.

Conn., Bridgeport—ICE PLANT—Park City Ice Co., 558 Howard Ave., 2 story, brick, steel addition, plain found., to P. Frank Inc., 1438 Main St. Est. $40,000. Noted Jan. 7.

Conn., Greenwich—GARAGE—Town, Superintendent of Hys., general contract 1 and 2 story, 80 x 80 ft., tile, steel municipal garage, to Wm. A. Berbusse, Jr., Inc., 35 Bush Ave., Port Chester, N. Y., $26,985. Noted May 26.

Conn., Middletown—FACTORY—General Importing Macaroni Mfg. Co., 63 Court St., altering and constructing 2 story, brick addition, plain found., to E. Milardo, Middletown. Est. $40,000. Noted Apr. 28.

Ky., Mayfield—PLANT—Curlee Clothing Co., brick plant alteration and equipment, separate contracts and day labor. $40,000.

N. J., Newark—METAL REFINERY—Baker & Co., 54 Austin St., precious metal refinery, 116 Murray St., to Douglas & Hueber, 605 Broad St. Est. $40,000 with equipment.

N. J., Newark—FACTORY—United Color & Pigment Co., Inc., Evergreen Ave., general contract altering 2 story, basement factory, incl. elevator, elevator shaft, stairways, steel sash and iron work, masonry, carpentry work, Evergreen Ave., to Enstice Bros., 897 Frelinghuysen Ave. Est. $40,000.

N. Y., Brooklyn—WAREHOUSE, etc.—Belfan Building Corp., 26 Court St., 1 story, 50 x 100 ft. storage and service garage, separate contracts. **Maturity later.** Noted May 19.

N. Y., Brooklyn—GARAGE, etc.—Casper Realty Corp., E. Iba, pres., 6117 4th Ave., 1 story, 90 x 100 ft. service garage, store, 4th Ave. and 62nd St., separate contracts. Noted May 19.

N. Y., Brooklyn—STORAGE and GARAGE—G. Sarrentino, 115 Navy St., plans by D. Salvati, 369 Fulton St., 2 story, 25 x 100 ft., brick, concrete, Navy and Johnson Sts.

N. Y., Brooklyn—STORAGE and DISTRIBUTION PLANT—R. DiSpirito, 208 Stone Ave., 1 story, brick, Atlantic Ave. and Eastern Parkway, separate contracts. T. R. Earne, 118 East 28th St., New York, archt. Noted May 19.

N. Y., New York—GARAGE—Julemore Co., M. Galt, pres., 277 Bway., altering 1 story, 100 x 200 ft. service garage, 9th Ave. and 204th St., separate contracts. $40,000. N. Langer, 81 East 125th St., archt. Noted May 12.

N. Y., New York—STORAGE—Namwen Realty Corp., c/o M. Newman, 533 eWst 112th St., 8 story storage and apartment, 508 West 112th St., separate contracts. To exceed $40,000.

N. C., Charlotte—AUTO SUPPLY HOUSE—Carolina Auto Supply, J. G. Fitzsimmons, pres., rebuilding 2 story auto supply house, College St., destroyed by fire, to J. J. McDevitt Co., Charlotte, $40,000.

O., Sandusky—MANUFACTURING PLANT—Bagdad Copper Products Co., West Sandusky, reconstructing copper rod and wire manufacturing plant, West Sandusky. Separate contracts awarded and equipment purchases in progress. $40,000.

Pa., Kennett Square—SLAUGHTER HOUSE, etc.—A. D. Pierce, 3 story, irregular sized, concrete block, stucco slaughter house, refrigerator, incl. equipment, to W. N. Worrall, 220 South Union St.

Pa., Phila. — FACTORY and STORAGE — National Casket Co., 2043 Arch St., 4 story, basement, 45 x 157 ft., brick, steel, plain found., to Turner Constr. Co., Architects Bldg. General contractor now taking bids on separate contracts. Est. $125,000. Noted Jan. 28.

Pa., Ridgway—LEATHER STORAGE—Elk Tanning Co., J. N. Troxell, pres., Masonic Bldg., 1 story, 78 x 100 ft., brick, steel, steel sash, concrete, North Broad St., to Hyde Murphy Co., Race St.

S. C., Pelzer—MANUFACTURING, etc.—Pelzer Mfg. Co., Pelzer, manufacturing and office, to Gallivan Building Co., Greenville. Est. $40,000, incl. equipment.

Va., Martinsville — TEXTILE PLANT — Virginia Underwear Corp., 3 story textile plant, to Finley & McCoy, Martinsville.

Wis., Tomahawk—NEWSPAPER PLANT—Tomahawk Leader Publishing Co., general contract 2 story, 40 x 70 ft., brick, rein.-con., to T. W. Willis, 326 Hayes Blk., Janesville.

T. H., Honolulu—WAREHOUSE—Honolulu Constr. & Drayage Co., 4 story, rein.-con., to E. E. Black, Honolulu, $127,850. Noted June 11.

See proposal advertising on page 58

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No wonder a COLAS Road means MAXIMUM penetration and binding with MINIMUM asphalt! No wonder COLAS can be applied COLD—yet deposit perfectly a thin even film of pure asphalt around every piece of aggregate.

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CONSTRUCTION NEWS

SECTION OF ENGINEERING NEWS-RECORD—JUNE 9, 1932

WATERWORKS

PROPOSED WORK

Conn., Bristol—Water Bd. raising dam at Reservoir 5, in Harwinton, on Terryville-Harwinton Rd., incl. new spillway. $51,000.

Minn., Big Falls—Municipality rebuilding municipal pumping station, destroyed by fire. To exceed $15,000.

Minn., Duluth—City, bids end of June constructing chlorination plant and pumping station. J. Wilson, city engr. Noted Mar. 24.

Neb., Valley—City preparing plans and bids latter part of month, well, puming equiment, pump house. Henningson Eng. Co., 326 Union State Bank Bldg., Omaha, engrs.

Wis., Sheboygan—Bd. Water Comrs., plan 5 m.g. elevated water storage reservoir with connecting lines. $200,000 bond issue is required and must be approved by City Council. A. H. Miller, supt.

Man., Brandon—City, J. H. Donnelly, alderman, City Hall, water softening plant. G. F. Sykes, city clk.

Ont., Islington—Etobicoke Twp. soon takes bids 4,700 ft. 16 and 12 in. c.i. water mains, valves, hydrants, services, etc. $15,000. W. H. Walker, Islington, engr.

Que., Montreal—Soon takes bids water pumping station St. Helen's Island. $40,000.

BIDS ASKED

Calif., Beverly Hills — June 21, by B. J. Firminger, city clk., furnishing, trenching, laying 3,600 ft. 6 and 8 in. welded steel pipe.

Calif., Upland—June 16, by R. G. Manley, city mgr., furnishing, laying 9,000 ft. O.D. 6 in. steel pipe, 9,000 ft. I.D. 6 in. c.i. pipe; 8,600 ft. 6 in. O.D. weld and lay steel pipe; 8,600 ft. ditch and backfill for pipe.

Mo., Higginsville—See "Contracts Awarded."

N. D., Wahpeton—June 15, by City, 470,000 gal. steel reservoir, 60 ft. in diam. $15,000 (unofficial). A. H. Miller, city aud.

O., Columbus—June 18, by Comrs. Franklin Co., F. L. Donnally, clk., water lines in Elmore Addition, Contr. 152, incl. 3,570 ft. 8 in. and 14,560 ft. 6 in. c.i. pipe, six 8 in. and forty-two 6 in. valves, 48 gate valves, 26 hydrants. $22,000. E. G. Bradbury, Court House Annex, engr.

Que., Montreal—See "Contracts Awarded."

CONTRACTS AWARDED

Calif., Long Beach—City, centrifugal rein. con. transmission main in Cerritos Ave., to United Concrete Pipe Co., 1347 West 208th St., Los Angeles, $27,000.

Calif., Redwood City — V. E. Myers, city clk., rein.-con. reservoir, to Neves & Harp, 891 Harrison St., Santa Clara, $18,850.

Kan., Anthony—City Council, waterworks improvements, incl. boiler setting, to H. W. Triller, 2544 Forest Ave., Kansas City, Mo., $2,985; pumps, to Allis-Chalmers Mfg. Co., 1224 West 12th St., Kansas City, Mo., $1,240; piping, to Crane Co., 1328 West 12th St., Kansas City, Mo., $1,174. Previously awarded contract steel tank on tower, to Joe Sparling, Inc., Tulsa, Okla., $10,500. Grand total $15,899.

La., Opelousas—City, 1 carload 4 in. and 1 carload 6 in. Class B c.i. pipe, to American Cast Iron Pipe & Fdry. Co., 2930 North 16th St., Birmingham, Ala.; fire hydrants and water main fittings, to Standard Sanitary Mfg. Co., 846 Baronne Ave., New Orleans.

Miss., Natchez—Bd. Water Comrs., repairing, cleaning, painting 600,000 gal. elevated water tank and tower, to Chicago Bridge & Iron Wks., 37 West Van Buren St., Chicago, Ill., $2,742; materials, to Feltus Bros., Natchez, $691. Noted Apr. 14.

Mo., Higginsville—Watermain extensions in various streets, local labor, under supervision City Superintendent.

Mo., Illmo—City, well, pumping equipment, tank on tower, distribution mains to J. J. Miller, Illmo, $37,000. Est. $45,000. Noted Jan. 28.

Neb., Plainview—City, two 13,000 gal. steel pressure tanks for air and water, to Fremont Fdry. & Machine Wks., Fremont, at 1,650 f.o.b. Plainview. Noted Mar. 10.

S. C., Greenwood—City, c/o F. Chapman, supt. Water Works, 25,000 sq.ft. structural steel, concrete, brick waterworks unit, to Fiske-Carter Constr. Co., Spartanburg, $15,811. Noted May 12.

Que., Montreal—City Council, installing water connections, day labor. $87,000.

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SEWERS

PROPOSED WORK

Ind., Muncie—Making plans sewage disposal plant. $75,000. State Bd. Health, orders City to construct. L. S. Finch, State House, engr.

Mass., Quincy — Metropolitan Dist. Comn., State House, Boston, pumping station at Houghs Neck to serve Germantown, Weymouth and Braintree, also some sewer lines. $100,000 up. Funds appropriated. Metropolitan Dist. Comn. Engineers, State House, Boston, engrs.

Mo., Joplin—City, making surveys sewerage disposal system. $25,000. C. A. Haskins & Co., Finance Bldg., Kansas City, engrs.

O., Dayton — Montgomery Co., rein.-con. or monolithic trunk connecting sewers to carry city of Oakwood and village of Carrmonte sanitary sewage to Dayton sewage disposal plant, $25,000. P. E. Borchers, Court House, co. sanitary engr.

Pa., Lancaster—City, bids this month for (4th unit) sewage disposal system, incl. 2 activated sludge disposal plants. $500,000. Total est. $3,500,000. Noted Dec. 24.

Tex., San Antonio—Hot Wells Dist., making surveys, estimates, etc., sanitary sewers. J. K. Beretta, Engineers, Natl. Bank Commerce Bldg., engrs.

Tex., San Antonio—Olmos Park Dist., surveys soon sanitary sewers to replace cess pools now in use, 1,500 acre residential dist. Address T. Dorbondt, Medical Arts Bldg., pres. Bd. Health.

BIDS ASKED

Louisiana—June 17, by Bd. State Engineers, engrs., 207 New Orleans Court Bldg., New Orleans, Harmon New Levee on west bank of Red River, 130,000 cu.yd. excav. for Red River-Bayou Pierre Levee & Drainage Dist.

N. Y., Kings Park—June 22, at office Dpt. Mental Hygiene, State Office Bldg., Albany, sewers and water lines at Kings Park State Hospital; adv. E. N.-R. June 9.

CONTRACTS AWARDED

Ia., Belle Plaine—City Council, sanitary outfall sewer to replace 1 now in service, incl. 1,968 ft. 18 in. double strength vitr. sewer pipe cradled in cement concrete, 48 ft. 16 in. class A. c.i. pipe, 9 manholes, 1 bulkhead, 110 ft. 24 in. Armco pipe, 17,000 ft. sheeting left in place, to D. Christiensen, Cedar Rapids, $7,000. Noted May 12.

Kan., Colby—City, E. V. Snell, clerk, 3,768 ft. 10 and 15 in. pipe and sewage treating plant, to Hoak Constr. Co., Des Moines, Ia., $40,051. Noted May 5.

Md., Baltimore—Bd. Awards, sanitary sewers and storm drains in Storm Water Contr. 176, to Morocco Contg. Co., 231 South Exeter St., $24,469. Noted May 16.

Mass., Boston—Dpt. P. Wks., concrete sewers, in Roslindale Brook, West Roxbury, to V. Barletta, 8 Whipple Ave., Roslindale, $23,723. Est. $25,000. Noted May 19.

Mass., Boston—Metropolitan Dist. Comn., 20 Somerset St., trunk sewer, Sect. 123, Quincy-Weymouth, to Bay State Dredging & Contg. Co., 62 Condor St., East Boston, $103,045. Noted Apr. 28, under "Contracts Awarded."

N. Y., Long Island City—G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., sewers in 92nd St., to C. Ambrosio, 137-47 227th St., $795. Rejected bids Apr. 11, sewer in 212th St. and receiving basin in 60th Rd. Noted Apr. 7.

N. Y., Long Island City—G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., to J. Gallo, 314 Linwood St., Brooklyn, sewers in Cooper Ave. $9,611, 161st St. $2,322; to C. F. and M. Contg. Co., 757 Glenmore Ave., Brooklyn, in Roosevelt Ave. $5,995. Corporal Stone St., $8,577, Jamaica Ave., $21,218; to Bellatto Constr. Co., Foch Blvd., South Ozone Park, 145th Ave., $3,144; to J. Clemente, 130-05 116th Ave., South Ozone Park, 148th St., $2,827; to J. DeLiso, in Queens Blvd., $14,883. Grand total $68,577. Rejected bids May 2 improving 60th St. and Jamaica Ave. Noted Apr. 28.

See proposal advertising on page 50

O., Cleveland—City, sewers in Westchester Ave., from East 98th to East 105th St., to D. Nero, 1421 Lakeview Ave., open cut $24,135; 415 ft. 24 in. D.S. and 470 ft. 18 in. D.S. vitr. tile sewers in Diagonal St. from Prospect to Carnegie Aves., to Angelo Marra Co., 4315 Pearl Rd., $5,471.

O., Columbus—W. P. Helenkamp, dir. Serv., 180 ft. 10 x 5½ ft. rein.-con. sewer, 175 ft. 48 in. and 50 ft. 60 in. concrete sewer, making connections at South Side Sewage Pumping station, to C. & R. Constr. Co., 995 East 5th Ave., $17,408. Noted May 12.

O., Norwalk—City, sewage reduction plant, 1 mi. north of city, to H. G. Christman Burke Co., Fisher Bldg., Detroit, Mich., $139,069. Total est. $375,000. Trunk line sewers and pump house completed. Noted Apr. 14.

Pa., Chester—City, Dpt. Streets & P. Impvts., G. J. Hunter, Dir., City Hall, sewage disposal plant and sewerage improvement along 2nd St., Ridley River, Contr. 16, to J. Matricciani, 229 Exeter St., Baltimore, Md., $160,020.

BRIDGES

PROPOSED WORK

Indiana—See "Streets and Roads."

Massachusetts — Commonwealth of Massachusetts, Dpt. P. Wks., State House, Boston, plans near completion 1,247 ft. rein.-con., steel deck girder bridge, 72 ft. wide over Saugus River, between Lynn and Point of Pines, providing 100 ft. channel space. $1,315,000. Noted May 5.

Mo., St. Louis—Bd. P. Serv., City Hall applied to Pub. Serv. Comn., for permission to widen Grand Blvd. viaduct across Mill Creek Valley, from 60 to 100 ft., by constructing new rein.-con., steel structure which will be made an integral part of present viaduct. $450,000. L. R. Bowen, City Hall, engr. in charge of plans.

Neb., Stanton—Stanton Co., W. F. Fullner, clk., rejected bids May 10, constructing, repairing bridges during 1932, also bridge materials, incl. standard sawn lumber, red cedar and yellow pine piling. Noted May 5.

Okla., Oklahoma City — City Council preliminary plans 2 span 160 ft. pony truss bridge on concrete piers at South 17th St. $25,000. L. M. Bush, City Hall, engr.

BIDS ASKED

California—See "Streets and Roads."

O., Cincinnati—June 24, by Comrs. Hamilton Co., 1 span, 59 ft. concrete bridge Lawrenceburg-Harrison Rd. $26,952. E. A. Gast, Court House, engr.

Utah—June 14, by State Road Comn., Salt Lake City, bridge to have 153 ft. span, steel cantilever concrete deck and piers over Denver & Rio Grande R.R. H. S. Kerr, state hy. engr.

CONTRACTS AWARDED

Calif., Los Angeles—Los Angeles Co., concrete steel bridge over Los Angeles River at Fireside Blvd., to C. W. Pettifer Co., 733 West 14th St., Long Beach, $72,953. Noted May 14.

Calif., Parkersfield—C. J. Joy, clk. Monterey Co., Court House, Salinas, 5 bridges over Cholame Creek, near here, to J. H. Graham, Route 1, Salinas, $22,236.

Illinois—State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, to P. E. Kornman, Sterling, bridges in Winnebago Co. $6,766—to Zimmerly Bridge Co., Paris, Stark Co. 21,663; Eangamon Co. $12,438—to Midland Structural Steel Co., Cicero, Coles and Moultrie Counties, $5,796; Tazewell Co. $11,865; Stark Co. $9,653—to H. L. Roberts, Rushville, Stark Co. $4,862—to Watt Constr. Co., Winchester, Coles and Moultrie Counties $21,379—to Clinton Bridge Wks., Clinton, Ia., Jackson and Union Counties $26,270—to Wisconsin Bridge & Iron Co., 5023 35th St., Milwaukee, Wis., Jackson and Union Counties $14,764—to Watt Constr. Co., Winchester, Scott Co. $45,912—to Vincennes Bridge Co., Vincennes, Ind., Scott Co. $11,578—to International Steel Co., Evansville, Ind., Scott Co. $5,679—to T. McQueen, Forest Park, McHenry Co. $70,496—to Illinois Steel Bridge Co., Jacksonville, Ford Co., $12,461; Ford Co. $5,539—to Strandberg Bros. Co., 608 South Dearborn St., Chicago, Cook Co. $19,143—to C. Logsdon, Beardstown, Fulton and Mason Counties, $10,662—to Watt Constr. Co., Winchester, Tazewell Co. $37,692. Grand total $375,997. Noted Nov. 12, Feb. 25, Apr. 21 and May 12.

Illinois—At office Dpt. Purchases & Constr., Springfield, Smith Hy. Bridge over Illinois Waterway, Contr. B7, at Channahon, to Power-Thompson Constr. Co., Joliet, $51,427. Noted Apr. 25.

Bridges (Continued)

Indiana — State Hy. Comn., Indianapolis, Bridge 460, over Buck Creek, Delaware Co., to A. W. Bruns, Brookville, $12,857; est. $18,554; rein.-con. girder bridge over Walnut Creek, Kosciusko Co., to Elkhart Bridge & Iron Co., Elkhart, $4,937, est. $6,867. Noted Apr. 21.

Iowa—State Hy. Comn., Ames, bridges, culverts in Kossuth, Humboldt, Hancock and Wright Counties, and in Plymouth and Sioux Counties, to Snyder & Johnson, Humboldt, $12,250 and $32,486 respectively—18 culverts, extensions, Marion Co., to Robertson Co., Muscatine, $10,500—adding two 30 x 20 ft. I-beam spans to present 30 x 20 ft. I-beam span bridge and widening two I-beam bridges, Black Hawk Co., to A. Olson Constr. Co., Waterloo, $3,904 and $1,496 respectively. Grand total $60,636. Noted May 18.

Ia., Le Mars—Plymouth Co., 2 I-beam bridges, 20 box and 7 pipe culverts, to Christensen Bros., Sioux City, $14,920; grading various sections, to Clark Constr. Co., Merrill, $14,795.

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, concrete bridge floor and surfacing on approaches for double 108 ft. span bridge over Monocacy River, Contr. F-159-1-57, Frederick Co., to Forbes-Murphy Contg. Co., 326 St. Paul St., Baltimore, $19,262—constructing 2 jetties at Ocean City, Contr. Wo-120-1019, Worcester Co., to Smith Bros., Galesville, $7,335. Noted May 19.

Maryland — State Roads Comn., Baltimore, G. C. Uhl, chn., triple span, steel girder bridge, concrete flooring over Youghiogheny River, Contr. G-75-67, Garrett Co., to Mullan Contg. Co., 3945 Greenmount Ave., Baltimore, $31,730. Noted May 5.

Mass., Fall River — City, P. Wks. Dpt., widening concrete bridge, 3rd St., to John E. Cox Co., Inc., 153 Davol St. Est. $25,000.

Mich., Manistee—At office Chief Engineer, State Hy. Dpt., Lansing, Trunk Line Bridge 1 of 51-6-1 Contr. 3 bascule type, Manistee Twp., Manistee Co., to Strom Constr. Co., 357 Houseman Bld., Grand Rapids, $246,999. Noted May 5.

New Jersey—State Hy. Comn., Trenton, 1,036 ft. bridge over Beach Thorofare at 9th St., Ocean City, to Merritt Chapman & Scott, Fidelity Trust Bldg., Baltimore, Md., $396,141. Noted May 5.

New York—A. W. Brandt, comr. Hys., Albany, bridges in Steuben Co., to I. M. Ludington's Sons, Inc., Power Bldg., Rochester, $56,567 est. $98,998; in Hamilton Co., to Semple & Thompson, Albany, $8,986 est. $14,379. Noted Apr. 21, under "Streets and Roads."

Oklahoma—State Hy. Dpt., Oklahoma City, rein.-con. bridges in Comanche and Lincoln Counties, to D. C. Sampley, Sulphur, $9,032 and $22,748 respectively — bridges near and at Stroud, Lincoln Co., to W. L. James, Ada, $13,414 and $19,192 respectively—Beckham Co., to R. S. James, Cotton Exch. Bldg., Oklahoma City, $14,602—Beckham Co., to Witt & Totum, Grandfield, $8,333—Washita Co., to Park & Co., 808 East 17th St., Oklahoma City, $18,275—Beaver Co., to S. S. Strong, Beaver, $14,082—Beaver Co., to Herman & Merveldt, El Reno, $18,177. Grand total $138,575. Noted May 26.

Texas—G. Gilchrist, state hy. engr., Austin, 6 multiple box culverts and 1 bridge, Sutton Co., to J. Floyd Malcom & Co., Abilene, $24,745 est. $30,000 — rein.-con. bridges, Sutton Co., to Crouch & Noland, Strawn, $36,508 est. $40,000 —8 multiple box culverts, Pecos Co., to Sanders & Hurlburt, Fort Stockton, $18,643 est. $25,000—steel, concrete, treated timber piling bridges, Falls Co., to Thomas & Ratliff, Rogers, $61,001 est. $70,000—3 rein.-con. bridges, 6 multiple box culverts, Jeff Davis and Reeves Counties, to L. D. Parks, 4108 Bunting St., Fort Worth, $26,707 est. $30,000—San Saba Bridge, McCullough Co., to Combs & Glade, 602 Sunset Dr., Wichita Falls, $53,982 est. $60,000 —Salado Creek and Cibolo Creek Bridges, Bexar and Guadalupe Counties, to D. F. Jones Constr. Co., Pyramid Life Bldg., Little Rock, Ark., $100,615 est. $120,000 — 16 span rein.-con. bridge, DeWitt Co., to Buckner Bros., Cleburne, $19,415 est. $25,000. Grand total $341,616.

Wisconsin—State Hy. Comn., La Crosse, to E. Blank, Cochrane, Sebranek Bridge on Sparta-Norwalk Rd., $6,981, Jenkins Bridge $4,877, Mack Bridge $3,294; Gnewikow Bridge $2,138, Morris Bridge $7,399—to E. G. Bigham, 263 West 9th St., Winona, Brook Bridge $9,467—to W. Noffke, Ontario, Nichols Bridge, $2,954—to A. Emberson, Galesville, Roy Bridge, $3,575—to A. R. Coffeen, Decorah, Ia., Norwalk Bridge, $5,714 — to A. P. Johnson, Melrose, Meyers Bridge, $2,688—to R. H. Noffke, Norwalk, McGary Bridge, $5,840; Schultz Bridge, $2,279; Krause Bridge, $2,427—to J. Johnson, Jr., 130 Park St., Whitewater, Dorset Subway Bridge, $5,796—to R. Blado, Tomah, Wolfgram Bridge, $4139; Kahler Bridge $3633 — to Wausau Iron Wks., Wausau, Park Bridge on Wilton-Elroy Rd. $8,515; Street No. 1 Bridge $8,368; Street No. 2 bridge, $3,826—to Touhey Constr. Co., Maribel, Welland Bridge, $3,046, all bridges in Monroe Co. Grand total $96,956. Noted May under "Streets and Roads."

Wisconsin—State Hy. Comn., Eau Claire, to G. F. Toebe, Chippewa Falls, Hogan Bridge, $1,347; DeMott Bridge $702; Veenendahl Bridge, $957 — to H. F. Hurtley, Mondovi, Gherty Bridge $3,433, all foregoing in St. Croix Co.; Johnson Bridge $1,365, Pierce Co.—to Clinton Bridge Wks., Clinton, Ia., Rush River Bridge, Pierce Co. $18,285; Somerset Bridge $42,979. Grand total $69,068. Noted May 19.

STREETS AND ROADS

PROPOSED WORK

Arizona—State Hy. Dpt., Phoenix, plans expending $7,595,766, incl. emergency budget of $2,625,366, contingent upon Congress enacting emergency Federal Aid Bill, for improving U. S. Hys. 66, 80, 180, 89, 60, 260, 87, 84; oil surfacing non federal aid roads between Gila Bend and Casa Grande; between Hoover Dam and Kingman and between St. Johns and Zuni, etc.

Indiana—State Hy. Comn., Indianapolis, plans expending $20,020,928 for construction work during 1932, incl. $11,824,802 high concrete type paving 447.31 mi. heavy resurfacing 16.6 mi. heavy grading 73.82 mi. roads—$3,645,932, constructing 146 bridges over 20 ft. span — $1,000,000, right-of-way payments—$3,550,093, maintenance construction—$434,101, light grading 579.67 mi. roads—$65,185 widening 86.28 mi. pavement—$370,045, new untreated stone surfacing 319.99 mi.—$1,958,196, oil surfacing 839.11 mi., bituminous macadam surfacing 81.02 mi., rock asphalt surfacing 59.4 mi. roads—$79,059 guard rail 9 mi.—$643,508, constructing bridges under 20 ft. span. J. J. Brown, dir.

Pennsylvania and New York—State Dpt. Hys., S. S. Lewis, secy., Harrisburg, Pa., converting 2-way road from Phila. to New York into a 4-way hy. $500,000 allocated for same. Work will begin soon.

BIDS ASKED

California—June 15, by State Hy. Comn., Sacramento, grading, bituminous treated crushed gravel or stone surfacing 9.7 mi. road between Cambria and point 1 mi. north of San Simeon; 2 steel stringer bridges with concrete decks, one eight 42 ft. and three 20 ft. spans over San Simeon Creek 6 mi. south of San Simeon, other six 38 ft. and two 20 ft. spans, 6.4 mi. south of San Simeon, all foregoing in San Luis Obispo Co. C. H. Purcell, hy. engr.

Delaware—June 28, by State Hy. Dpt., Dover, slag surfacing 7.3 mi. Tub Mill-Thompsonville Rd., Contr. 254—grading, concrete paving driveways, Brandywine Sanitarium, Contr. 253, both in Newcastle Co.—grading, 600 lin.ft. expansion joint, concrete paving 3,000 ft. Front St., Seaford, Contr. 42-D—200 ft. Market to 2nd Sts., Laurel, Contr. 41-B, both Sussex Co. W. W. Mack, Dover, engr.

Ill., Geneva—June 15, by C. L. Hansen, supt. Hys., Kane Co., concrete paving 3,177 ft. State Aid Route 1, Sect. 89-15D.

Ia., Eldora—Hardin Co., rejected bids May 17, maintenance graveling and hauling, incl. 55,380 cu.yd. gravel, 292,630 units overhaul, 27,690 cu.yd. pit stripping. Will readvertise.

Ia., Toledo—June 16, by W. H. Malin, aud. Tama Co., graveling 27 mi. trunk and local roads, incl. 17,000 cu.yd. Class A gravel, or crushed limestone; and resurfacing 37 mi. road, incl. 6,000 cu.yd. gravel or crushed limestone. Former bids rejected. H. A. Rager, Court House, co. engr. Noted May 19.

Kentucky — June 29, by State Hy. Comn., Frankfort, improving 11.5 mi. Hopkinson-Madsonville Rd. — 4.5 mi. Hopkinsonville-Dawson Springs Rd.—16.4 mi. Hopkinsville-Kirkmansville Rd., all foregoing Christian Co.—5.4 mi. London-Manchester Rd., Clay Co. — 8.25 mi. Bowling Green-Cave City Rd., Edmonson Co.—9.8 mi. Muhlenberg Co.—7.9 mi. Greensburg-Edmonton Rd., Green Co.—5 mi. Hancock Co.—5.9 mi. Henderson-Dixon Rd.—7.3 mi. same road—paving fill slopes east approach to Spottsville Toll Bridge, all foregoing Henderson Co.—grading 6.1 mi. Barbourville-Tyes Ferry Rd., Knox Co. — 5 mi. Louisa-Sandy Hook Rd., Lawrence Co.—6.7 mi. Heyden-Manchester Rd., Leslie Co.—1.8 mi. Letcher Co.—10 mi. Russellville-Franklin Rd., Logan and Simpson Counties—12.4 mi. Lyon Co.—5.7 mi. Calhoun-Livermore Rd., McLean Co.—12.8 mi. Rowan and Elliott Counties; 1.8 mi. Jamestown-Albany Rd., Russell Co.—8.5 mi. Warren Co.—17.4 mi Whitley Co.—bridge in Scott Co.—overhead at Logan Co.

Maryland—June 14, by State Roads Comn., G. C. Uhl, chn., Baltimore, concrete shoulders, concrete paving 7.13 mi. Contr. Cl-107-511, Carroll Co.—concrete paving 1.89 mi. Contr. Wo-112-14, Worcester Co.—concrete shoulders 3.19 mi. Contr. Wo-122-111, Worcester Co.; adv. E N.-R. June 9.

Md., Baltimore — June 15, by Bd. Awards, grading, curbing, concrete paving 12,500 sq.yd. streets listed in Contr. 622; 14,800 sq.yd. roads vicinity Prettyboy Dam, listed in Contr. 623. G. Cobb, Municipal Bldg., hys. engr.

Michigan—June 18, by W. J. Kingscott, div. engr., 213 Watson Bldg., Grand Rapids, grading, shaping, drainage, 20 and 40 ft. concrete paving 0.559 mi. F070-36C-2 and M070-36C-3, Ottawa Co., for State Hy. Comn., Lansing.

Mich., St. Joseph—June 15, by Berrien Co. Rd. Comn., Court House, shaping, drainage, alternating concrete and asphaltic concrete paving 1.506 mi. roads. J. Hampton, St. Joseph, co. engr.

Minnesota—June 14, by State Hy. Dpt., St. Paul, concrete paving 15.4 mi. S.P. 9-40, Sects. 2 and 3—10.5 mi. S.P. 12-27, Sects. 4 and 5, Div. A—16.2 mi. S.P. 17-28, 17-21 and 17-27, Div. A.

Minnesota—June 14, by State Hy. Dpt., St. Paul, grading 2.2 mi. S.P. 3-41 Div. C—10.1 mi. S.P. 6-51, Sect. 3—1.3 mi. S.P. 8-27-B—8.8 mi. S.P. 18-24, Divs. A and C—4 mi S.P. 25-28—4.6 mi. S.P. 56-24 Sect. 3—4.7 mi. S.P. 66-21, Sect. 3—7.3 mi. S.P. 66-21, Sect. 5—13.4 mi. S.P. 70-23.

Mo., Kansas City—Jackson Co. soon take bids paving 6.7 mi. River Blvd. and Sterling Ave., 18 ft. Stayton & Veatch, 508 Mutual Bldg., engrs.

Nevada—July 6, by State Hy. Comn., Carson City, asphaltic fuel oil and crushed graveling 11.17 road between Hoye and Bulkhead, Lyon Co.—28.96 mi. road from Sand Springs to Eastgate, Churchhill Co.—reconditioning 15.[illegible] mi. road between Keystone and McGill, applying seal coat 22.16 mi. road between Keystone and Robinson Summit and between Cherry Creek Rd. and point 10 mi. north, White Pine Co.—grading, graveling 3.39 mi. road between Browns and foot Geiger Grade, Washoe Co. S. C. Durkee, state hy. engr.

New York—June 28, by A. W. Brandt, comr. Hys., Albany, constructing hys. in Delaware, Franklin, Oswego and Sullivan Counties; reconstructing roads in Broome, Essex, Hamilton and Herkimer Counties, adv. E. N.-R. June 9.

N. Y., New York—June 15, by S. Levy, pres. Manhattan Boro, Municipal Bldg., laying and relaying sidewalks, curbs, during year 1932, Manhattan Boro.

Pennsylvania—June 16 and 17, by Dpt. Hys., Harrisburg, grading, rein.-con. and macadam paving, bridging 70 mi. hys. in Allegheny, Beaver, Centre, Clarion, Columbia, Dauphin, Northumberland, Luzerne, Schuylkill, Somerset, Tioga, Lycoming, Venango and Washington, Greene Counties; adv. E. N.-R. June 9.

Washington—June 21, by S. J. Humes, dir. Hys., Olympia, furnishing, placing 9,000 cu.yd. special ballast course surfacing on 3.2 mi. State Hy. 12, Weyhauser Crossing to Long Bell Dyke, Cowlitz Co.

Wash., Bellingham—June 17, by Comrs. Watcom Co., County Court House, grading, concrete paving 1.1 mi. Guide Meridian Rd., and 1.5 mi. Meridian Rd., Lateral Hy. 22, 20 ft. C. McCoy, Bellingham, co. engr.

Wisconsin—June 14, by State Hy. Comn. and Hy. Coms. Vernon, LaCrosse and Monroe Counties, LaCrosse, grading, concrete paving 83,450 sq.yd. Black River Falls-Augusta-Eau Claire Rd., U. S. Hy. 12, F.A.P. 395-B and 395-A, Reopened, 92,010 sq.yd. Black River Falls-Augusta-Eau Claire Rd., U. S. Hy. 12, F.A.P. 395-A Reopened, both Jackson Co. — 3,378 sq.yd. Viroqua-Richland Center Rd., S.T.H. 11, F.A.P. 422-B—grading 8,304 mi., DeSoto-Viroqua Rd., S.T.H. 82, S.A.P. 5353, both Vernon Co. — crushed rock surfacing 16,610 cu.yd. DeSoto-Viroqua Rd., S.T.H. 82, S.A.P. 5353, both Vernon Co.—concrete masonry structures Middle Ridge-LaCrosse Rd., S.T.H. 33, S.A.P. 5358, LaCrosse Co.

CONTRACTS AWARDED

Arizona — State Hy. Comn., Phoenix, improving 8.9 mi. Benson-Douglas Hy., to Orr & Rawls, 1031 River St., El Paso, Tex., $118,401. Noted May 16.

Arizona—State Hy. Comn., Phoenix, regrading, oiling 22 mi. road from Pima Co. line to Picacho, to New Mexico Constr. Co., Albuquerque, N. M. Est. $150,000.

California — State Hy. Comn., Sacramento, grading, concrete and asphalt paving 2.4 mi. road between Montalvo and Oxnard, Ventura Co., to United Concrete Pipe Co., Box 1, Station H, Los Angeles, $69,689; grading, treating borders with bituminous surface 11.9 mi. road between McConnell and Sacramento, Sacramento Co., to Force Constr. Co., 70 Bellevue Ave., Piedmont, $102,985. Noted May 19.

Colorado—State Hy. Dpt., Denver, mixed oil processing 55.321 mi. road between Denver and Limon, Combined Federal Aid Projects 149-C 3, 149-G.R. 1 and 149-H.R. 1, to M. E. Carlson, 4483 Newton St., Denver, $153,839. Est. $157,400.

Connecticut—J. A. Macdonald, state hy. comr., Hartford, 9,059 ft. hy. Southbury, to Clark-Barone Co., 59 Legion Ave., New Haven, $28,934—grading, drainage, gravel base surfacing 3,278 ft. Waterford, to L. E. McLaughlin, Inc., 48 Dell Ave., New London, $4,955—rolled bank run gravel surfacing 9,200 ft. Easton, to T. J. Connor, 441 Artic St., Bridgeport, $8,806—11,367 ft. Ledyard, to Nott Plant Co., Columbus Ave., Meriden, $9,122—11,550 ft. Somers, to Edward Balf Co., 171 State St., Hartford, $7,835—5 x 5 ft. rein.-con. box culvert and approaches Guilford, to J. T. Sliney, Branford, $1,874—3 in. screened gravel on 6 in. bank run gravel base surfacing 9,675 ft. Weston, to Hy-Way Constr. Co., 73 Steuben St., Bridgeport, $9,417. Grand total $70,943. Noted May 19.

Florida—State Road Dpt., Tallahassee, B. M. Duncan, state hy. engr., clearing, grubbing, grading, macasphalt or Colprovia on limerock base surfacing 69,806 sq.yd. Rd. 47, Project 1024 and 32,477 sq.yd. Rd. 4, Project 1097, both Duval Co., to Duval Eng. & Constr Co., Jacksonville, $353,414 — grading, surfacing 9.851 mi. Rd. 2, Project 757, Polk Co., to Rutherford Constr. Co., Lake Wales, $269,432—grading, sand rock asphalt, or macasphalt on limerock base surfacing 7.174 mi. Project 758, Polk Co., to John E. Ballenger Contg. Co., Lakeland, $201,024—clearing, grubbing, T-O-1 tar prime, bitulithic, flint rock, crushed slag, or Brooksville stone surfacing 8.6 mi. Rd. 8, Project 562-C, Highlands Co., to Manley Constr. Co., Ocala, $196,768. Grand total $1,020,638. Noted May 19.

Illinois — State Dpt. P. Wks. & Buildings, Div. Hys., Springfield, to McCarthy Impvt. Co., Davenport, Ia., shoulders on roads in DeKalb Co. $18,792; paving in DuPage Co. $34,490; grading Franklin and Jefferson Counties $41,143—to L. B. Dyer, Hoopeston, paving Sect. 39W3, in McDonough Co. $18,366; Sect. 39W1, same county $16,931—to Thornton & Sons, Matton, Streets and Roadsd (Continued)

Coles and Moultrie Counties, $146,509—to P. F. MacFarland Co., Joliet, Will Co. $31,672—to E. M. Roche, Freeport, Stephenson Co. $10,986—to Cast Stone Constr. Co., Bloomington, Scott Co. $135,954 — to Hartman-Clark Bros. Co., Peoria, Ford Co. $42,495; Ford and Champaign Counties $67,071—to Highways Constr. Co., Highland Park, Lake Co. $73,777—to Lenahan & Konen, Vincennes, Ind., Lawrence Co. $18,696—to G. Anderson & Co., Harvey, Cook Co. $47,413—to E. M. Melahan Constr. Co., Algonquin, Will Co. $18,990—to Arcole Constr. Co., Niles Center, Sect. 103, Winnebago Co. $131,460; Sect. 103, same county, $118,344 — to A. J. Bohlken, Arlington Heights, grading Henry Co. $6,932—to H. H. Enbody & Sons, Aurora, Stark Co. $50,709—to M. Wunderlich, Jefferson City, Mo., Macoupin Co. $56,630; St. Clair Co. $113,268—to L. Gray, St. Louis, Mo., Montgomery Co. $8,076—to S. J. Groves & Sons, Libertyville, McHenry and Lake Counties, $126,650—to Jansen & Schaefer, Pekin, Tazewell Co. $21,899. Grand total $1,357,253. Rejected bids Apr. 27 paving Lake Co. Noted Nov. 12, Dec. 17, Feb. 25, and Mar. 10.

Ill., Eureka — Woodford Co., Court House, traffic bound surface course gravel surfacing 5.0331 mi. Sect. 8-M.F.T., 5.8258 mi. Sect. 9-M.F.T., and 2.7841 mi. Sect. 10-M.FT, all 9 ft wide, to Coptas Williams, 1012 East Bridge St, Streator, $17,553. Noted Apr. 21.

Ill., Morrison—Whiteside Co., concrete surfacing 48,292 sq.yd. State Aid Route 7, Sect. K-3, to Pickus Eng. & Constr. Co., 38 South Dearborn St., Chicago, $75,353.

Ill., Sycamore—Bd. Comrs. DeKalb Co., graveling 9.3 mi. Sects. 3-1 and 3-2, Motor Fuel Tax, to Burch Constr. Co., Madison, Wis., $49,982. Noted Mar. 14.

Indiana—J. J. Brown, dir. State Hy. Comn., Indianapolis, grading, concrete paving 107,478 sq.yd. Road 57, Daviess Co., to D. Renfrow Constr. Inc., Lafayette, $137,114 est. $167,436; 115,845 sq.yd. Hamilton and Marion Counties, to Williston Constr. Co., South Bend, $115,863 est. $154,920. Noted May 5.

Indiana — State Hy. Comn., Indianapolis, grading, curbing, guttering, structures, guard rail, concrete surfacing 128,580 sq.yd. Federal Aid Project 208-B, Rd. 6, St. Joseph and Laporte Counties, to M. D. Heinz, Gary, $156,683. Est. $215,185. Noted Mar. 24.

Ind., Anderson — Bd. Comrs. Madison Co., grading, culverts, concrete surfacing Mottweiler Rd., to Anglemeyer Bros., Elwood, $16,933. Est. $25,000. Noted May 5.

Ind., New Albany—Floyd Co., grading, surfacing 20,192 ft. Old Corydon Rd., to Severin Bachman, New Albany, $20,200. Est. $25,000.

Ind., Vincennes—Bd. Comrs. Knox Co., gravel surfacing Buckles and Lett Roads, to O. Donnell Sand Co., Vincennes, $8,350—Like Rd., to E. H. Byers, Monroe City, $5,424—Neal Rd., to Hart & Anderson, Sandborn, $3,550—Wheeler Rd., to O. Fulford, Vincennes, $1,399. Grand total $18,723. Est. $25,135. Noted Apr. 28.

Iowa — State Hy. Comn., Ames, to W. Horrabin Contg. Co., Iowa City, paving 0.444 mi. road in Johnson Co. $14,081; 0.275 mi. Muscatine Co. $5,553—to J. Fox, Forest City, grading 2.328 mi. Cerro Gordo Co. $6,947—to Green Constr. Co., Sheldon, 16.624 mi. Kossuth, Wright, Humboldt and Hancock Counties $35,099—to Bert Vander Stouwe, Hull, 3.358 mi. Marion Co. $18,521—to W. H. Dugan & Sons, Omaha, Neb., 14.172 mi. Plymouth and Sioux Counties $55,633—to Interstate Constr. Co., Madison, Wis., crushed stone surfacing 8.3 mi. Dubuque Co. $14,035—to Baker & Patton, Adel, gravel surfacing 7.5 mi. Clinton Co. $3,900; 7.3 mi. Clinton and Jackson Counties $6,023; 11.6 mi. Jackson Co. $9,570—to Bellevue Sand & Gravel Co., Bellevue, 8.1 mi. Jackson Co. $7,930; 12.2 mi. Jackson Co. $10,978—to Lynch Constr. Co., Des Moines, 1.9 mi. Keokuk Co. $1,585—4.5 mi. Keokuk Co. $4,635—to Harvey Sand & Gravel Co., Harvey, 4.6 mi. Monroe and Wapello Counties $8,450—to R. H. Dixon, Mystic, 4.9 mi. Van Buren Co. $12,289—to Armstrong Paving Co., 606 Crocker Bldg., Des Moines, bituminous surfacing 6 mi. Adams Co. $2,736; 8.8 mi. Fayette Co. $4,585—9.6 mi. Lucas Co. $4,373; 5.59 mi. Taylor Co. $2,523—9.91 mi. Taylor Co. $4,267; 12 mi. Warren Co. $5,472; 7.4 mi. Winneshiek Co. $3,856—to L. J. Peters, 3400 Carlisle Rd., Des Moines, gravel surfacing 6 mi. Adams Co. $4,645; 8.8 mi. Fayette Co. $5,728; 2.4 mi. Montgomery Co. $3,484; 5.59 mi. Taylor Co. $5,277; 9.91 mi. Taylor Co. $8,370—to M. O. Weaver, Iowa Falls, 7.4 mi. Winneshiek Co. $6,019. Grand total $276,564. Noted May 19.

Ia., Jefferson—At office Auditor Greene Co., improving roads, incl. 90 x 400 cu.yd. gravel, 548,000 units overhaul, 30,000 cu.yd. stripping, to Ferguson & Diehl Constr. Co., Dana, $11,658, to A. H. Pound, Scranton, $9,886; to N. E. Hendricks, Scranton, $9,308; and to J. R. Paul, Jefferson, $8,968. Grand total $39,820.

Ia., Mason City—Cerro Gordo Co., gravel surfacing trunk and local roads, incl. 66,850 cu.yd. gravel, 265,810 units station overhaul, 28,500 cu.yd. pit stripping, to Beu & Sons, Sumner, $24,463. Noted Apr. 28.

Ia., Spirit Lake—At office Auditor Dickinson Co., improving 32 mi. roads, incl. 32,000 cu.yd. gravel, 171,000 units overhaul, 6,300 cu.yd. stripping 15,000 cu.yd. maintenance gravel, 60,000 units overhaul to Yant Constr. Co., 1146 Omaha Natl. Bank Bldg., Omaha, Neb. $19,800.

Kan., Wichita—Curbing, guttering Vassar Ave. from 15th to 16th Sts. and Orme St. from Holyoke to Rutan Sts., to V. W. Lefever, Wichita, at 55c. per foot; concrete paving 2,640 sq.yd. same streets to Stewart Constr. Co., Wichita, at $1.39 per sq.yd.

Kentucky—State Hy. Dpt., Frankfort, grading, drainage structures, using 1st class double strength vitr. pipe 6.393 mi. Hazel Green-Cannel City Rd., Wolfe Co., to North Fork Constr. Co., Jackson, $66,954. Rejected bids Feb. 23, paving fill slopes on Spottsville Toll Bridge approaches, on Henderson-Owensboro Rd., Henderson Co. Noted Mar. 17.

Kentucky—State Hy. Dpt., Frankfort, rein.-con. paving 6.885 mi. Hopkins Co., to N. E. Stone & Co., Madisonville, $108,729—9.349 mi. Webster Co., to Gorrell, Barrow & Kirkpatrick, Russellville, $132,701—grading, draining 4.62 mi. Ballard Co., to J. R. Harkless, Wickliffe, $29,085—10.876 mi. Calloway Co. to Frazer & Cooke, Wickliffe, $83,186—6.437 mi. Edmonson Co., to Thomas J. Murphy & Bro., Bowling Green, $55,248—8.617 mi. Graves Co., to C. G. Kershaw Contg. Co., Martin Bldg., Birmingham, Ala., $48,900—6.8 mi. Webster Co., to Corum Bros., Madisonville, $20,816 — black top on waterbound macadam base surfacing 12.363 mi. Pike Co., to Myers Bros., Campbellsburg, Ind., $84,419—traffic bound limestone surfacing 11.437 mi. Todd Co., to R. H. Waters, Boston, $30,771 — substructure of bridge over Beech Fork Creek, Bardstown-Hodgenville Rd., Nelson Co., to Wilmore Constr. Co., Wilmore, $18,668; steel superstructure for same to International Steel Co., Evansville, Ind., $29,207—substructure for bridge over Rough River, Leitchfield-Hardinsburg Rd., Grayson and Breckinridge Counties, to J. U. Schickli, 21st St. and Greenwood Ave., Louisville, $8,467 — bridge approaches and substructure for bridge, Floyd's Fork, Shepherdsville-Taylorsville Rd., Bullitt Co., to Shields Constr. Co., Hazard, $14,988—steel superstructures for two foregoing bridges to Vincennes Bridge Co., Vincennes, Ind., $15,940 and $13,756 respectively. Grand total $694,891. Rejected bids traffic bound limestone surfacing 13.216 mi. hy. Bullitt Co.—grading, draining 1.456 mi. Dixon-Henderson Rd., Nelson Co.—6.098 mi. Elkton Sharon Grove Rd., Todd Co. — 0.755 mi. Leitchfield-Hardinsburg Rd., Grayson and Breckinridge Counties—traffic bound limestone surfacing 6.094 mi. Leitchfield-Brownsville Rd., Grayson Co. Noted Apr. 28 and May 5.

Maryland—State Roads Comn., Baltimore, G. C. Uhl, chn., concrete paving 1.02 mi. Contr. C-101-54, Carroll Co., to Thomas Bennett & Hunter, Westminster, $16,742. Noted Jan. 28.

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, concrete paving 3.32 mi. hy. Contr. Q-76-24, Queen Anne's Co., to Union Paving Co., Broad and Stiles Sts., Phila., Pa., $38,598. Noted Apr. 7.

Maryland—State Roads Comn., G. C. Uhl, concrete shoulders 4.38 mi. Contr. A-124-611, Allegany Co., to Cumberland Contg. Co., Cumberland, $34,361. Noted May 5.

Maryland — State Roads Comn., Baltimore, G. C. Uhl, chn., concrete paving 0.14 mi. Contr. K-71-211, Kent Co., to Phillips Bros., Salisbury, $4,462. Noted May 12.

Maryland—State Roads Comn., Baltimore, G. C. Uhl, chn., concrete paving 1.99 mi. Contr. W-92-64, Washington Co., to M. J. Grove Lime Co., Lime Kiln, $36,683. Noted May 19.

Md., Baltimore—Bd. Awards, sheet asphalt paving 8,700 sq.yd. streets listed in Contr. 619, to National Paving & Contg. Co., Menlo Dr. and Wheeling & Maryland R.R., $22,072.

Mich., Flint—Genesee Co. Road Comn., Court House, grading, drainage, rein.-con. paving 3¼ mi. County Rd. 145, (Grand Blanc Rd.)—and 5¼ mi. County Rd. 139 and 140, (Pierson Rd.)—to F. E. Loselle, Wyandotte, $52,198 and $78,063 respectively—grading, 4 mi. County Rd. 142, (Irish-Coldwater Rd.), to C. A. Handeyside Constr. Co., 12-233 General Motors Bldg., Detroit, $52,264—2.121 mi. County Rd. 144, (Torrey Rd.) and 0.298 mi. County Rd. 143 (Wilson Rd.), to M. W. Cochran, Bloomfield Hills, $31,967 and $5,083 respectively. Grand total $219,575. Noted May 12.

Mich., Grand Rapids—Kent Co. Road Comn., grading, shaping, drainage, 20 ft. concrete paving 1.16 mi. Coit Concrete Rd., to H. C. Nelson, Muskegon, $22,874.

Minnesota—State Hy. Dpt., St. Paul, grading, concrete paving 149,786 sq.yd. State Project 30-23, Div. B, F.A.P. 251, and S.P. 30-22, Div. B, F.A.P. 117B, to Johnson, Drake & Piper, 1138 Baker Bldg., Minneapolis, $217,163. Noted Apr. 7.

Missouri—State Hy. Bd., Jefferson City, to Land & Skilbred, St. Joseph, 512,309 gal. No. 2 oil, 176,410 gal. No. 3 oil and 700 cu.yd. gravel in stock pile in Div. 1, $23,483; 193,962 gal. No. 2 oil, 301,254 gal. No. 3 oil, and 1,160 cu.yd. gravel in stock pile, Div. 2, $18,216; 506,207 gal. No. 2 oil, 347,748 gal. No. 3 oil and 1,205 cu.yd. gravel in stock pile, Div. 4 $27,530—to S. G. Hayes & Co., Jefferson City, 22,441 gal. No. 2 oil, 1,260,023 gal. No. 3 oil, and 4,814 cu.yd. gravel, in stock pile, Div. 3, $50,821—to Imperial Trucking Corp., Kansas City, 88,000 gal. No. 2 oil, 279,542 gal. No. 3 oil and 1,010 cu.yd. gravel, in stock pile, Div. 5 $13,663; 394,887 gal. No. 3 oil, 1,385 cu.yd. gravel in stock pile, Div. 7 $14,682—to Rock Hill Asphalt & Constr. Co., 1210 North Rock Hill Rd., St. Louis County, 1,159,345 gal. No. 3 oil, 40,710 gal. No. 4 oil and 4,772 cu.yd. gravel in stock pile, Div. 6 $47,018; 394,887 gal. No. 3 oil, 99,464 gal. No. 4 oil, and 1,788 cu.yd. gravel in stock pile, Div. 10 $22,117—to Iowa Road Building Co., 1495 Keo Way, Des Moines, Ia., 489,887 gal. No. 3 oil and 1,350 cu.yd. gravel in stock pile, Div. 8 $19,827—to M. E. Gillioz, Monett, 663,954 gal. No. 3 oil and 2,260 cu.yd. gravel in stock pile, Div. 9, $29,558—to Carter Waters Corp., 2049 Main St., Kansas City, 695,995 gal. No. 3 oil and 2,650 cu.yd. gravel in stock pile, Div. 9 $28,207; 569,940 gal. No. 3 oil and 2,240 cu.yd. gravel in stock pile, Div. 9 $23,089. Grand total $318,211.

Mo., Clayton—St. Louis Co., Court House, grading, rein.-con. paving 14,000 sq.yd. Hanley Rd., to C. A. Moreno Constr. Co., Syndicate Trust Bldg., St. Louis, $27,247—2,910 sq.yd. Lexington Ave., to Skrainka Constr. Co., Security Bldg., St. Louis, $9,620—237 ft. Beale Ave., to Kunze Constr. Co., 5926 Scanlon Ave., St. Louis, $1,920. Grand total $38,787.

Mo., Clayton—St. Louis Co., Court House, grading, concrete paving Tesson Ferry Rd., to Skrainka oCnstr. Co., Security lBdg., St. Louis, $83,454; concrete sidewalks on Florissant Ave., to Independent Quarry Co., Missouri Bldg., $358.

Mo., Kansas City — Jackson Co. furnishing, applying 2,000,000 gal. road oil on roads, to P. Patton, 1921 Woodland Ave., at 5.45c. per gal.

Mo., St. Louis—Bd. P. Serv., City Hall, asphalt on concrete paving 800 sq.yd. 20th St., to Flinn Paving Co., 1405 South 4th St., $1,968—1,800 sq.yd. 15th St., to Asphalt Paving Co. of St. Louis, 1328 Sublette Ave., $5,713; 3,400 sq.yd. Wells Ave., to Crean & Scott Constr. Co., 1442 Sublette Ave., $10,829—vibrolithic concrete paving 5,300 sq.yd. Veronica Ave. to Skrainka Constr. Co., Security Bldg., $15,393—1,610 sq.yd. Annetta Ave., to Eyerman Contg. Co., 1210 South Grand Blvd. $6,476—1,585 sq.yd. Partridge Ave., to Stiers Bros. Constr. Co., 2944 Magazine St., $5,913. Grand total $46,292. Noted May 12.

Mont., Billings—City Council, pentholic type resurfacing 17,000 sq.yd. parts 28th and 29th Sts. and 1st and 2nd Aves., to Woodward Constr. Co., Rock Springs, Wyo., at $1.825 per sq.yd., total $38,167.

New Mexico — State Hy. Comn., Santa Fe, graveling 10.526 mi. San Juan Co., to J. H. Miller Constr. Co., 1646 Blake St., Denver, Colo., $226,440 — 1.354 mi. same county, to Leone Bros., Trinidad, Colo., $16,713—18.863 mi. Dona Ana Co., to A. O. Peabody, Las Cruces, $140,835—concrete surfacing 8.261 mi. Luna Co., to Lee Moor Contg. Co., Two Republics Bldg., El Paso, Tex., $8,183. Grand total $392,271. Noted May 12.

New York—A. W. Brandt, comr. Hys., Albany, concrete paving 8.62 mi. Orange Co. and 1.2 mi. Sullivan and Orange Counties, to Lane Constr. Co., 37 Colony St., Meriden, Conn., $199,957 and $91,076 respectively, est. $316,225 and $127,414 respectively—4.1 mi. Oneida Co., to J. Bellardino, Seneca Falls, $133,028 est. $200,184 — 3.58 mi. Nassau Co., to Stanhy Constr. Co., Steinway Ave., Long Island City, $206,646 est. $297,602—2.42 mi. Westchester Co., to Tuckahoe Constr. Co., Inc., Tuckahoe, $231,523 est. $355,282. Grand total $862,230. Noted Apr. 21.

N. Y., Brooklyn—H. Hesterberg, pres. Brooklyn Boro, Boro Hall, to C. Bennett Impvt. Co., 465 Fenimore St., grading Ashford St. $3,829—to B. Turecamo, New Cropsey Lane, asphalt paving East 32nd St. $6,912; East 31st St. $6,432; East 40th St. $6,585; Foster Ave. $12,685; 68th St. $8,152—to Heafilley Constr. Co., grading Ralph Ave. $17,817—to D. J. McCoy Asphalt Co., Avenue U and East 57th St., asphalt paving East 86th St. $7,483; Repose Pl. $4,827; Avenue S $6,985—to W. J. McHale Contg. Co., 1250 Jefferson Ave., grading 66th St. $7,595. Grand total $97,118. Noted Apr. 18.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous concrete paving Forest Hill Rd., to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $7,053. Noted May 12.

N. Y., Yorktown — Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, grading, paving Bronx Parkway Extension, to O. E. Ottaviano, Inc., Croton-on-Hudson, $171,548. Noted May 5.

Ohio — O. W. Merrell, dir. Hys., Columbus, grading, draining, bituminous macadam paving 24.76 mi. Sects. "A" and others, Lima-Kenton Rd., Allen and Hardin Counties, to Wesco Co., Riverside Dr., Chattanooga, Tenn., $266,908.

O., Cincinnati—Dir. P. Wks., grading, draining, walks, water mains, sewers, concrete paving 30,000 sq.yd. Queen City Ave., to O'Connell & Sweeney, Kellogg and Tennyson Aves., $114,745. Est. $138,032.

O., Cleveland — Asphalt paving North and South Approaches to Fulton Rd. Bridge, to Roehl Bros. Paving & Constr. Co., 7112 Denison Ave. $48,729.

Oklahoma—State Hy. Dpt., Oklahoma City, grading, drainage 7.41 mi. Beaver Co., to Green & Reese, Fairview, $23,124—4.91 mi. Beckham Co., to Stephenson & Boyle, Elk City, $18,427—6.1 mi. Beckham Co., 20 ft., to C. Merveldt, El Reno, $20,584—5.31 mi. Lincoln Co., to Hyde Constr. Co., Enid, $21,432—6.61 mi. Beaver Co., to S. S. Strong, Beaver, $16,512, all foregoing 32 ft. wide—concrete slab on 5.31 mi. Lincoln Co., to S. O. Maxey & Co., Durant, $95,041. Grand total $195,130 Noted May 26. May 26.

Oklahoma—State Hy. Dpt., Oklahoma City, to Standard Paving Co., 2119 East 11st St., Tulsa, concrete slab surfacing 6.507 mi. Federal Aid Project 219-A, Atoka Co., 20 ft. $110,715 est. $125,000—to Younger Bros., Cotton Exch. Bldg., Oklahoma City, grading, drainage structures 6 mi. State Aid Project 822-A, $30,800 est. $35,000; 5.51 mi. Sect. B same road $26,209 est. $30,000, 5.215 mi. Sect. C same road $24,734 est. $25,000, all foregoing 32 ft. wide. Grand total $192,458. Noted May 19.

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Streets and Roads (Continued)

Pa., Pittsburgh—E. G. Lang, dir. Bd. P. Wks., City-County Bldg., grading, curbing, paving Mt. Pleasant Rd. between East and Colby Sts. and Rescue St., between Rockledge and Varley Sts., to M. O. Herron Co., South 1st St., $24,832 and $7,839 respectively; reconstructing street intersection at Wilkins Ave. and Wightman St. and in Chartiers Ave., to Parkview Constr. Co., Inc., $898. Grand total $33,569.

Tennessee—State Dpt. Hys. & P. Wks., Nashville, grading, drainage, paving 0.671 mi. Route I, in Rockwood, Roane Co., to W. A. Patton & Co., South Pittsburgh, $17,662—1.3 mi. No. 54, Tipton Co., to E. A. Wood & Co., Cotton States Bldg., Nashville, 13,453—paving 2.2 mi. No 11, Williamson Co., and short section No. 106 in Davidson Co., to Wm. F. Bowe, Jr., 540 Reynolds St., Augusta, Ga., $43,028 and $31,531 respectively—bridge, Jefferson Co., to Steel & Lebby, Holston Bank Bldg., Knoxville, $129,866. Grand total $235,590. Noted May 5.

Texas—G. Gilchrist, state hy. engr., Austin, triple asphalt surface treating 17.74 mi. hy. Andrews Co., to Lone Star Constr. Co., P. O. Box 126, Fort Sam Houston Sta., San Antonio, $56,612 est. $76,000 — caliche and waterbound broken stone macadam base course surfacing 18.578 mi. Reagan Co., to R. W. Briggs & Co., Pharr, $73,603 est. $80,000—iron ore top soil base course with road oil treating 9.267 mi. Cherokee Co., to F. P. McElwrath Constr. Co., State Natl. Bank Bldg., Corsicana, $28,675 est. $40,000—concrete paving 13.329 mi. McLennan Co., to Arcola Constr. Co., Richland, $174,670 est. $200,000—14.376 mi. Childress Co., to McClung Constr. Co., 1309 Fort Worth Natl. Bank Bldg., Fort Worth, $232,240 est. $260,000—14.132 mi. Roberts Co., to L. E. Whitham & Co., P. O. Box 1292, Wichita Falls, $221,426 est. $240,000—11.977 mi. Leon Co., to G. L. La Boiteaux, Bryan, $164,680 est. $200,000—2.97 mi. Tarrant Co., to West Texas Constr. Co., 501 East Rosedale St., Fort Worth, $40,516 est. $44,000—grading, drainage structures 7.196 mi. Hudspeth Co. and 12.125 mi. Jeff Davis and Reeves Counties, to Hannah Constr. Co. and F. & D. Hall, P. O. Box 994, Waco, $26,608 and $33,750 respectively est. $32,000 and $36,000 respectively — 17.634 mi. Stonewall Co., to Womack-Henning Constr. Co., Sherman, $63,425 est. $72,000 — 13.343 mi. Presidio Co., to Thurber Constr. Co., Fort Worth Natl. Bank Bldg., Fort Worth, $42,397 est. $40,000 — 10.045 mi. Sutton Co., to Tom Archer Co., 308 Bourline St., Fort Worth, $41,291 est. $48,000 —11.47 mi. McLennan Co., to Word & Worrell, Itasca, $41,477 est. $44,000 — 12.202 mi. Childress Co., to Huddleston & Work, Crosbyton, $63,383 est. $60,000—10.953 mi. Sutton Co., to A. B. Murdock, Dallas, $48,580 est. $52,000—10.992 mi. Pecos Co., to Sanders & Hurlburt, Fort Stockton, $27,554 est. $32,000—14.316 mi. Gray Co., to Cocke & Braden, Marshall, $113,370 est. $130,000. Grand total $1,494,257. Noted May 19.

Utah—State Road Comn., Salt Lake City, grading, graveling 9.984 mi. Pikes Peak Hy., Uintah Co., to Northwestern Eng. Co., Rapid City, S. D., $78,628 est. $102,510—10.196 mi. Sevier Co., to Young & Neilson, Richfield, $6,332 est. $7,625—10.068 mi. Salt Lake-Boise Rd., Boxelder Co., to J. W. Whiting, Springville, $6,454. Grand total $91,414. Noted May 12.

Virginia—State Hy. Dpt., Richmond, sheet asphalt widening 8 mi. road between Courtland and Franklin, Southampton Co., to F. J. McGuire, Norfolk, $116,526. Noted May 12.

Wisconsin — State Hy. Comn., Wisconsin Rapids, concrete paving 9.169 mi. Poy Sippi-North County Line Rd., Waushara Co., to Morris Martin Co., Berlin, $205,169; 5.217 mi. Aurorahville-East Line Rd., to J. Rassmussen & Sons, Oshkosh, $153,464. Noted May 5.

Wisconsin—State Hy. Comn., La Crosse, grading 13.28 mi. Sparta-Norwalk Rd., S.A.P. 5352, to P. W. Ryan Sons, 303 South 34th St., Janesville, $81,154 — 13.67 mi. Wilton-Elroy Rd., S.T.H. 71, S.A.P. 5347, to S. J. Groves & Sons Co., 509 Wesley Temple Bldg., Minneapolis, Minn., $110,475—crushed stone surfacing 13.28 mi. Sparta-Norwalk Rd., S.T.Hy. 71, to O. Sanders, Mount Horeb, $23,794—13.67 mi. Wilton-Elroy Rd., S.A.P. 5347, to Interstate Constr. Co., 524 Tenney Bldg., Madison, $40,633, all foregoing projects in Monroe Co.—2.2 mi. concrete approaches to Green Acres Overhead, Mormon Coulee Overhead, Monegan Overhead, and La Crosse-La Crescent Rd., S.T.H. 33 and U. S. Hy. 16 and 61, La Crosse Co., to Rapids Constr. Co., Wisconsin Rapids, $64,992. Grand total $321,048. Rejected bids May 26, concrete paving 0.38 mi. Viroqua-Richland Center Rd., Vernon Co. Noted May 19.

Wisconsin — State Hy. Comn., Eau Claire, grading, graveling 18.07 mi. Taylor Co., to Froemming Bros., Inc., 4384 North Green Bay Ave., Milwaukee, $177,010—5.97 mi. Dunn Co., to F. Mashuda, 2213 South 57th St., Milwaukee, $52,622—grading, crushed stone surfacing 3.54 mi. Durand-Eau Claire Rd., and 1.49 mi. Durand-Mondovi Rd., Pepin Co., to A. Schroeder, Jr., 1011 West Capitol Dr., Milwaukee, $23,930 and $20,196 respectively—4.77 mi. Pierce Co., to Lex Constr. Co., South 89th and Slinger Aves., West Allis, $150,050. Grand total $423,808. Rejected bids grading, graveling 8.16 mi. F.A.P. 400-B, St. Croix Co., work will be done by day labor by St. Croix Co., H. B. Olsen, Hammond, comr. Noted May 19.

Wisconsin—State Hy. Comn., Madison, grading, concrete paving 3.755 mi. Shawano-Tilleda Rd., to Cherney Constr. Co., Francis Creek, $59,212—9.552 mi. South County Line-Crivitz Rd., Marinette Co., to R. B. Vickery & Co., Suamico, $116,632 — 10.896 mi. Abrams-North County Line Rd., Oconto Co., to Jorgensen Constr. Co., Denmark, $236,298 — 12.433 mi. Manitowoc-Sturgeon Bay Rd., to McGucken & Vander Heyden Co., 192 4th St., Milwaukee, $234,218 —11.25 mi. Abrams-North County Line and South County Line-Crivitz Rds., Oconto and Marinette Counties, to Garvey-Weyenberg Constr. Co., Appleton, $227,674 — 12.14 mi. Sherwood-Brothertown Rd., Calumet Co., to J. F. Bloomer Co., Appleton, $255,253. Grand total $1,129,287. Noted May 12.

Wisconsin—State Hy. Comn. and Hy. Coms. Dane, Green, Rock and Sauk Counties, Madison, crushed graveling 7,500 cu.yd. Columbus-Randolph Rd., to Stark Woodruff Co., Waterloo, $9,075—9,000 cu.yd. Deerfield-Columbia County Line Rd., to Rein & Dahl, Stoughton, $9,810; furnishing culvert extension pipe, to Klauer Mfg. Co., Dubuque, Ia., $416—gravel shoulder repairs various hys., Dane Co., to E. F. Gallagher, Oregon, $6,188—crushed stone surfacing 5,000 cu.yd. New Glarus Westerly Rd., Green Co., to Watson-Jenkins, Rewey, $5,350 —furnishing culvert extensions, to Felker Bros. Mfg. Co., Marshfield, $1,718. Grand total $32,562. Rejected bids May 18, improving Spring Green-Northerly Rd., Sauk Co. Noted May 12.

Wis., Milwaukee — Milwauke Co., grading, paving Green Bay Rd. 2 and 3, to W. F. Hunt, 757 North Bway., $137,460—Lover Lane Rd. 2, to McGucken & Vander Heyden, 744 North 4th St., $38,504—Howell Rd. 4, to J. R. Griffith, Racine, $30,090—Greenfield Ave. 3, to Jacobs & Winding Constr. Co., 181 Church St., Wauwatosa, $30,991. Grand total $237,045.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

Calif., Long Beach—W. V. Steele, councilman First Dist. submitting sketches to various improvement districts with purpose of stimulating a bond issue for construction yacht anchorage and marine race course, incl. rock breakwater extending 3,500 ft. into ocean, thence easterly 7,000 ft., thence toward shore 3,000 ft., also plans purchasing site for yacht clubhouse, erecting marine service station, judges float and other structures. $2,820,000. A. H. Adams, City Hall, engr. Noted June 2.

BIDS ASKED

La., New Orleans—June 17, by Bd. State Engineers, 207 New Orleans Court Bldg., Harmon New Levee, 21,000 ft. long, 5.2 ft. high, west bank Red River.

CONTRACTS AWARDED

Calif., Indio—Trustees of Coachella Valley Storm Water Dist., 136,000 cu.yd. excav., 3,000 lin.ft. wire netting, 2 in. pipe channel protection work near Happy Point, to Gist & Bell, 130 Bonita Ave., Arcadia, $17,072. Noted May 5.

Ia., Keosauqua—Van Buren Co., repairing, extending Fox River D.D., incl. 157,524 cu.yd. excavating, to Peterson Constr. Co., Savannah, Mo., at 4.47c. per cu.yd.

Minn., Robbinsdale—See "Streets and Roads."

Wash., Bellingham—North Coast Transportation Co., concrete bulkhead, to Dorsey & Wilder, Bellingham. Est. $50,000.

FEDERAL GOVERNMENT

PROPOSED WORK

Fla., Pensacola — AIR CONDITIONING SYSTEM—Spec. 6682—Yards & Docks, Navy Dpt., Wash., D. C., air conditioning system, underground watermains, electric manhole and electric ductions at Naval Air Station.

La., Monroe—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids in June, U. S. Post Office. $390,000 appropriated. Noted Feb. 2.

Me., Fort Williams—GARAGE—Con. Q. M., Fort Williams, cancelled bids steel garage.

N. J., Oceanport—OFFICE, QUARTERS, etc. —Con. Q. M., E. P. Antonovich, Fort Monmouth, 2 story, basement, brick, steel office, quarters, garages, Fort Hancock. $150,000. Private plans.

New York—DREDGING—U. S. Eng., 1st Dist., Whitehall St., New York, plans dredging 34,000 cu.yd. and removing 12,950 cu.yd. ledge rock from East River and Newtown Creek.

Texas—DREDGING—U. S. Eng., c/o River & Harbors Dept., Wash., D. C., branch channel, 25 ft. deep, 100 ft. wide from Laguna Madre across to Port Arthur, $250,000; channel 25 ft deep, 100 ft. wide cross Laguna Madre $400,000; entrance channel 300 ft. wide, 25 ft. deep through Brazos-Santiago Pass $2,358,000; branch channel from Laguna Madre to Brownsville, $1,975,000. House Com. approved project and plans will go ahead.

Tex., Fort Worth—FEDERAL BUILDING—Treas. Dpt. at office Sup. Archt., Wash., D. C., plans by W. G. Clarkson, 1st Natl. Bank Bldg., 5 story, federal building, 10th, Lamar and Burnett Sts. $1,215,000. P. Cret, Architects Bldg., Phila., Pa., assoc. archt. Noted Jan. 14.

Tex., Galveston—WHARF—U. S. Eng. soon takes bids 330 ft. creosoted timber and pile wharf, 20 ft. wide.

Utah, Cedar City — POST OFFICE — T Dpt. at office Sup. Archt., Wash., D. C., completed by Cannon & Fetzer, Templeton B Salt Lake City, 3 story, brick, limestone, gr found. $150,000. Noted June 5, 1930.

Vt., White River Junction—HOSPITAL— Bu., Arlington Bldg., Wash., D. C., prep plans brick, U. S. Veterans' Hospital. $350,0

BIDS ASKED

Alabama and Florida—DREDGING—June by U. S. Eng., Montgomery, Ala., dredg Pensacola Mobile Intracoastal Waterway fr mouth Portage Creek, Ala., to 11 ft. hy graphic contour in Bon Secours Bay, Fla shoal at Pensacola Bay entrance to Big Lag Fla.; adv. E. N.-R. June 9. Noted Oct. 15.

Ala., Montgomery—OIL STORAGE SYST —June 21, at office Con. Q. M., Maxwell F oil storage system, Maxwell Field; adv. E. N June 9.

Ala., Montgomery—STORAGE TANKS—J 24, at office Con. Q. M., two 25,000 gal. gaso storage tanks (furnished by government) control equipment, fill and delivery, lines Maxwell Field; adv. E. N.-R. June 9.

Arizona—BRIDGE—June 16, by C. H. Swe ser, dist. engr. Pub. Rds., 802 Title & T Bldg., Phoenix, constructing Clear Creek Brid Sect. C, Route 9, Clarkdale-Globe Nation Forest Hy., Coconino Co. Natl. For Yavapai Co.

Arizona—ROAD—June 14, by Superintend Grand Canyon Natl. Park, Grand Canyon, o seal coating roadbed 35.139 mi. South A proach Rd., to Grand Canyon Natl. Park, in Tusayan Natl. Forest, Coconino Co.

California—ROAD—June 16, by C. H. Swe ser, dist. engr. Pub. Rds., 461 Market St., San Francisco, improving San Gabriel Natl. For Highway, Los Angeles Co.

Calif., Glendale—POST OFFICE—July 14, by Treas. Dpt. at office Sup. Archt., Wash., D. C U. S. Post Office; adv. E. N.-R. June 9. Noted Feb. 11.

Calif., El Centro—POST OFFICE—June 1 by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted May 5.

Conn., Bridgeport—POST OFFICE—June 30, by Treas. Dpt. at office Sup. Archt., Wash., D. C., brick, stone, U. S. Post Office, Middle, Water and Golden Hill Sts. $1,500,000. C. W. Walker, 1115 Main St., archt. J. M. Howells, 154 East 46th St., New York, engr. Noted Apr. 28.

Conn., New London—WHARF—June 14, by U. S. Coast Guard, Wash., D. C., 24 x 180 and 24 x 190 ft. wharf with two 24 x 350 ft. finger piers, creosoted timber and pile, at Coast Guard Academy. $85,000. Noted Apr. 28.

D. C., Wash. — DISTRIBUTION SYSTEM — June 28, at office Con. Q. M., boiler plant and underground heat distribution system, Bolling Field; adv. E. N.-R. June 9.

D. C., Wash.—HEATING PLANT—June 21, at office Public Buildings & Public Parks, National Capitol, west central heating plant and distribution system, incl. boilers, piping, tunnels, and auxiliary equipment; adv. E. N.-R. June 9.

D. C., Wash. — STEAM DISTRIBUTION SYSTEM—June 23, by Treas. Dpt. at office Sup. Archt., Wash., D. C., complete steam distribution system, incl. tunnels, conduits, etc., from Central Heating Plant to various public buildings.

D. C., Wash.—WATER SOFTENING UNIT—June 14, by Supplies & Accounts, Navy Dpt., Wash., D. C., softening unit at Navy Yards, New York, N. Y. and San Francisco, Calif.

D. C., Wash.—WATER SUPPLY, etc.—June 21, by Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing condensing water supply and discharge systems for air conditioning buildings in Triangle Group; adv. E. N.-R. June 9.

Ga., Fort Benning—QUARTERS—June 30, by Con. Q. M., 7 non-commissioned officers' quarters and 88 garages; adv. E. N.-R. June 9.

Illinois—DRAINAGE PROJECT, etc.—June 22, by U. S. Eng., 1st Chicago Dist., 333 North Michigan Ave., Chicago, constructing Goose Lake Drainage Project and Goose Lake Pump House, both Grundy Co.; adv. E. N.-R. June 9.

Illinois —EXCAVATING, etc. — July 1, by U. S. Eng., 333 North Michigan Ave., Chicago, excavating, maintenance dredging 76,670 cu.yd. earth between Mile 229.0 and Mile 230.9 of Illinois River, to restore 9.5 ft. depth below approved low water.

Ill., Lockport—EXCAVATING, etc.—June 23, by U. S. Eng., 333 North Michigan Ave., Chicago, excavating, dredging 72,000 cu.yd. earth from upper and lower approaches to Lockport Lock and removing 117 ft. steel sheet piling and timber bracing from upper entrance to lock, near here.

Ill., Ottawa—EXCAVATING, etc.—July 1, by U. S. Eng., 1st Chicago Dist., Chicago, excavating, dredging 76,670 cu.yd. earth between Mile 229 and Mile 230.9, Illinois River, near here; adv. E. N.-R. June 9.

Indiana—DREDGING—June 28, by U. S. Eng. Office, Cincinnati, O., dredging channel in Ohio River at Vevay Bar, Vevay and Rising Sun Bar, Rising Sun; adv. E. N.-R. June 9.

Kan., Fort Leavenworth — LIGHTING SYSTEM—June 27, by Con. Q. M., night lighting system for landing field.

Mo., St. Louis—BOILER PLANT—June 24, by Treas. Dpt. at office Sup. Archt., Wash., D. C., altering boiler plant.

N. Y., Batavia—HOSPITAL—July 12, by Vet. Bu., Arlington Bldg., Wash., D. C., U. S. Veterans' Administration Hospital; adv. E. N.-R. June 9. Noted Apr. 7.

Federal Government (Continued)

N. Y., Brooklyn—CABLE—June 15, by Signal Supply Officer, Army Base, 58th St. and 1st Ave., 45,000 ft. cable.

N. Y., Brooklyn—POWER UNIT—June 20, by Signal Supply Officer, Army Base, 58th St. and 1st Ave., power unit.

N. Y., Kingston—POST OFFICE—June 17, by Treas. Dpt., at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office; adv. E. N.-R. June 2. Noted May 12.

N. C., Mount Airy—POST OFFICE—June 24, by Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing U. S. Post Office; adv. E. N.-R. June 9. Noted Apr. 7.

Tenn., Memphis—CEMENT—June 14, by U. S. Eng., portland cement.

Wash., Puget Sound—PUMP—June 14, by Bureau Supplies & Accounts, Navy Dpt., Wash., D. C., portable electric pump and spare parts.

BIDS RECEIVED

D. C., Wash.—OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., June 1, U. S. Department Justice Building, from G. A. Fuller Co., Munsey Bldg., Items (1) $7,667,000 (2) $7,567,000. Noted May 26.

CONTRACTS AWARDED

Ala., Montgomery—HANGARS—Con. Q. M., constructing, installing partition in 4 hangars, to Smith-Pew Constr. Co., 435 Irwin St. N. E., Atlanta, Ga., $2,724.

Conn., Putnam—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Tremaglio Bros., Waterbury, $69,000. Noted Apr. 21.

D. C., Wash.—ELEVATOR PLANT—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator plant in Dpt. Agriculture Building, to Westinghouse Elevator Co., 1500 North Branch St., Chicago, Ill., $263,750.

D. C., Wash.—EXTENSIBLE BUILDING—Aronberg Fried Co., general contractors, 1248 3rd Ave., New York, awarded contract 10,000 tons structural steel for Dpt. Agriculture Extensible Building, to Fort Pitt Bridge Wks., Oliver Bldg., Pittsburgh, Pa., for Treas. Dpt. at office Sup. Archt., Wash., D. C. Noted May 19, under "Contracts Awarded."

D. C., Wash.—OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Dpt. Labor, Interstate Commerce Commission Building, and connecting wings, to Great Lakes Constr. Co., 42 South St., New York, $8,846,000. Noted May 26.

D. C., Wash.—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to McCloskey & Co., 1620 West Thompson St., Phila., Pa., $7,642,000; elevators, to A. B. See Elevator Co., Inc., 52 Vesey St., New York, $337,753. Noted May 2.

Ill., Lawrenceville—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to North Moller Co., Jackson, Mich., $52,989. Noted May 5.

Ill., Rock Island—STORAGE HOUSE—U. S. Eng., Rock Island, 1 story, 36 x 62 ft., rein.-con. storage house on intermediate wall of Lock 15, Mississippi River, to McKeown Bros. Co., 209 West Jackson St., Chicago, $11,390. Noted May 5.

Ill., Waukegan—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Paschen Bros., Inc., 33 North LaSalle St., Chicago, $143,000. Noted Apr. 7.

Ia., Sioux City—DIKES—U. S. Eng., 1,400 ft. standard dikes and jetties in Missouri River, to Bilhorn, Bowers & Peters ,Railway Exch. Bldg., St. Louis, Mo.

Ia., Spencer—POST OFFICE—Treas. Dpt. at office, Sup. Archt., Wash., D. C., U. S. Post Office, to Midwest Contg. Co., 317 North 11th St., St. Louis, Mo., $72,789. Noted Apr. 28.

Mississippi, Arkansas and Louisiana—EARTHWORK—U. S. Eng., Vicksburg, Miss., to G. W. Condon, 233 Grain Exch. Bldg., Omaha, Neb., 744,000 cu.yd. earthwork below Duckport, Sect. 598R, on Mississippi River, $96,720; to F. M. Crane Co., 210 South 24th St., Omaha, Neb., 350,000 cu.yd. on west bank Mississippi River, below Grand Lake, Ark., $59,500, 651,000 cu.yd. between Atherton and Goodrich, Sect. 555RA $84,630, 427,000 cu.yd. Atherton to Goodrich Sect. 555RB, $64,904, 726,000 cu.yd. Hagman to Atherton, La., Sect. 550RD $111,078; to R. Blank, Tallulah, La., 939,000 cu.yd. Milliken Bend to Duckport, Sect. 585RA, $140,850; to Sternberg Dredging Co., Arcade Bldg., St. Louis, Mo., 710,000 cu.yd. Hagman to Atherton, Sect. 550RC $110,050, 490,200 cu.yd. below Grand Lake, Ark., Sect. 517RD $68,628; to McWilliams Dredging Co., Clinton, Ia., 464,800 cu.yd. same levee Sect. 517RC $74,368; to Donahoo Contg. Co., 510 North 21st St., Birmingham, Ala., 437,000 cu.yd. on east bank Mississippi River in Mississippi from Caroline to Valewood Sect. 520LC, $67,298; to H. Hughey Co. and Driver Constr. Co., Memphis, Tenn., 78,500 cu.yd. same levee Sect. 520LB, $117,750; to Forcum Jones Constr. Co., Dyersburg, Tenn., 462,500 cu.yd. Sect. 520LA same levee, $80,938, 754,000 cu.yd. Mascot to Milliken Bend, Sect. 580RA, $131,950, 428,000 cu.yd. Atherton to Goodrich Levee Sect. 555RC, $74,900; to Clarke Bros. Constr. Co., Clinton, Ia., 680,000 cu.yd. below Grand Lake, Ark., Sect. 517RB, $88,400, 1,087,000 cu.yd. Hagman to Atherton, Sect. 550RB, $141,310, 1,146,000 cu.yd. same levee Sect. 550RA $148,980, 1,999,000 cu.yd. Mascot-Milliken Bend, $269,865, 1,193,000 cu.yd. Mascot-Milliken Bend Sect. 580RC $172,985, 710,000 cu.yd. Milliken Bend to Duckport $102,950; to Driver Constr. Co., Memphis, Tenn., 240,000 cu.yd. in Milliken Bend to Duckport, Sect. 585RB $52,800, 185,000 cu.yd. same levee Sect. 585RE $25,900, 675,000 cu.yd. same levee, $108,000. Grand total $2,394,754. Noted May 5.

Miss., Meridian—ELEVATORS—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevators in U. S. Post Office, to Westinghouse Electric Elevator Co., 1500 North Branch St., Chicago, Ill., $12,768. Noted Apr. 14.

New Jersey — DREDGING — U. S. Eng., Wilmington, Del., 578,000 cu.yd. Cold Spring Inlet, to Amer. Dredging Co., 308 Chestnut St., Phila., Pa., at 7.4c. per cu.yd. placement measurement. Noted Apr. 14.

N. J., Paterson—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Wallace Constr. Co., 52 Vanderbilt Ave., New York, $377,758. Contractor soon lets separate contracts. Noted Apr. 21.

N. Y., Ellis Island—ROOFING—Commissioner Immigration, Treas. Dpt., Wash., D. C., sheet metal and roofing on Island 2, to Merritt Contg. Co., 418 East 11th St., New York, $13,300.

N. Y., Port Chester — DREDGING, etc. — U. S. Eng., 710 Army Bldg., New York, dredging and rock removal in Port Chester Harbor, to Bridgeport Dredge & Dock Co., 1024 Main St., Bridgeport, Conn., $30,000. Noted May 5.

Ore., Salem—WEATHER BUREAU STATION —U. S. Weather Bureau Dpt. Agriculture, Wash., D. C., 2 story, tower, weather bureau station and residence for observer, at Totoosh Island, to Western Constr. Co., Textile Tower, Seattle, $31,296.

Pa., Phila.—REMODELING—Yards & Docks, Navy Dpt., Wash., D. C., remodeling officers quarters at marine barracks, to Makofky & Co., 114 East 32nd St., New York, $21,892. Noted Apr. 28.

R. I., Block Island — LIGHTKEEPER'S DWELLING, etc.—Superintendent Lighthouses, St. George, N. Y., lightkeeper's dwelling, retaining wall, fog signalling house, 100 ft. 15 ft. white roadway, to Vandale Co., Inc., 72 Pondville Rd., Bronxville, N. Y., $9,915. Noted Mar. 24.

Tenn., Memphis—PUMPS, etc.—U. S. Eng., P. O. Box 97, three 15 in. sand and gravel pumps, also spare parts, to U. S. Engineers depot across Mississippi River from Memphis, Tenn., to Hardie-Tynes Mfg. Co., 800 North 28th St., Birmingham, Ala., $7,513 and $1,346 respectively. Noted Apr. 28.

Texas—DREDGING—U. S. Eng., Galveston, 148,000 cu.yd. in Double Bay and Anahuac Channels, to Standard Dredging Co., 323 Guaranty Bldg., Galveston, $150,846. Noted Jan. 28.

Va., Lynchburg—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to R. Sollitt, South Bend, Ind., $338,300. Noted May 5.

Va., Quantico—STREET LIGHTING—Yards & Docks, Navy Dpt., Wash., D. C., system street lighting at U. S. Marine Barracks, to Industrial Power Equipment Co., 421 West Camden St., Baltimore, Md., $13,341. Noted May 12.

Wash., Oroville—INSPECTION STATION—Treas. Dpt. at office Sup. Archt., Wash., D. C., inspection station, to F. A. Zoller, Olympia, $38,174.

Wash., Puget Sound—REFRIGERATING UNIT—Spec. 6697—Yards & Docks, Navy Dpt., Wash., D. C., refrigerating and ice making plant, to Vilter Mfg. Co., 935 Clinton St., Milwaukee, Wis., $6,962. Noted May 5.

Canal Zone—BUTTERFLY VALVES—General Purchasing Officer, Panama Canal, butterfly valves for Madden Dam, to Hardie-Tynes Mfg. Co., 800 North 28th St., Birmingham, Ala., $33,369; sluice gates, to Birmingham Mfg. Co., Birmingham, Ala., $76,000; trash rack and metal work, to Pusey-Jones, Wilmington, N. C., $26,275. Grand total $135,644. Noted Mar. 31.

Canal Zone—OVERHAULING LOCKS—A. L. Flint, gen. purch. officer Panama Canal, items 1 to 3 for overhauling Pacific Locks, Panama Canal, to United States Steel Products Co., 30 Church St., New York, $74.32; structural steel, Item 4, to Wrought Iron Co., 90 West St., New York, $34.35; bearing plates, to Reading Iron Co., Reading, Pa., $7,460; machine bolts and bolts and nuts, to Aldridge Pump Co., Fort Pine St., Allentown, Pa., $2,021 and $4,560 respectively; Items 44 and 45, to S. Weinstein Supply Co., 396 Bway., New York, $3,546; nickel steel bars, to Crucible Steel Co., Lansdowne, Pa., $10,544. Grand total $24,693. Noted Apr. 14.

T. H., Pearl Harbor—RUNWAY, etc.—Spec. 6711—Yards & Docks, Navy Dpt., Wash., D. C., runway and paving, Navy Yard, to R. E. Woolley, Honolulu, $161,650. Noted Apr. 28.

SUBWAYS AND TUNNELS

BIDS ASKED

N. Y., Brooklyn—June 14, by Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, installing tracks and contact rail for part rapid transit railroad, from intersection Court and Schermerhorn Sts., under Schermerhorn St., Fulton St. and Lafayette Ave. to Nostrand Ave., incl. spur under Lafayette Ave. and intersecting streets from Fulton to South Oxford Sts.

Pa., Phila—June 14, by C. C. Davis, dir., City Hall Annex, Contr. 220, furnishing, installing, relocating electrical equipment in substations and subway. Noted June 2.

CONTRACTS AWARDED

N. Y., Brooklyn—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, modification subway structure to provide for crossover, on Route 110, Sect. 5, between Saratoga and Hopkinson Aves., Agreement "LU," to Necaro Co., 105 Court St., $16,926. Noted May 19.

GRADE CROSSINGS

PROPOSED WORK

Calif., San Bernardino—See "Bridges."

N. Y., Big Flats—Delaware, Lackawanna & Western R.R. Co., G. J. Ray, ch. engr., Hoboken, N. J., and Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., grade separation (change in present structure). To exceed $25,000. Pub. Serv. Comn. approved plans and directed $3,100 of paving cost be charged to Dpt. P. Wks.

N. Y., Cheektowaga—Delaware, Lackawanna & Western R.R. Co., G. J. Ray, ch. engr., Hoboken, N. J., and Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., ordered by Pub. Serv. Comn. to acquire land for eliminating Ludwig Crossing. To exceed $40,000. Noted May 15, 1930.

N. Y., Manchester — Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., eliminating Main Street Grade Crossing. Pub. Serv. Comn. ordered land to be acquired.

N. Y., Seneca—Pennsylvania R.R. Co., A. C. Watson, ch. engr., Broad St. Sta., Phila., Pa., and Lehigh Valley R.R. Co., G. T. Hand, ch. engr., 143 Liberty St., New York, eliminating grade crossings at Main and Seneca Sts. $106,852. Pub. Serv. Comn. approved detail plans and directed Dpt. P. Wks. to pay $4,800 toward cost.

Va., Richmond—Richmond, Fredericksburg & Potomac R.R. Co., E. M. Hastings, ch. engr., submitted tentatvie plans to City, for approval, Lombardy St. Underpass.

CONTRACTS AWARDED

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, substructure, superstructure (with exception of superstructure for span over railroad tracks), approaches, etc., for proposed grade elimination over Baltimore & Ohio R.R. tracks, Front St., Cumberland, Contr. A-43-63, Allegany Co., to Cumberland Contg. Co., Cumberland, $89,562. Noted Dec. 3.

N. Y., Hoosick—Boston & Maine R.R. Co., W. J. Backes, ch. engr., Boston, Mass., eliminating grade crossing between Hoosick and North Hoosick, Rensselaer Co., to F. T. Ley & Co., Inc., 1215 Main St., Springfield, Mass., $20,708. Noted Jan. 14.

PIERS AND WHARVES

PROPOSED WORK

Miss., Bay St. Louis—Mrs. J. N. Stewart and Bay St. Louis Chamber of Commerce, c/o W. J. Gex, Jr., completed plans 1,000 ft. recreational pier, incl. ornamental overhead approach, pavilion, restaurant, bath houses.

BIDS ASKED

Calif., Ocean Park—Ocean Park Realty Corp., taking bids cement, form lumber, reinforcing steel, sand gravel for Ocean Park Pleasure Pier. $50,000. H. E. Mackie, archt., and J. P. Perrine, engr., both 341 Western Pacific Bldg., Los Angeles.

Ont., Welland South—June 14, by J. W. Pugsley, secy. Dpt. Railways and Canals, Ottawa, rein.-con. pile dock at Welland South, Welland. $250,000.

AIRPORTS

PROPOSED WORK

R. I., Providence—State, Airport Comn., R. T. Bodwell, chn., Cranston, plans by Jackson, Robertson & Adams, 1216 Turks Head Bldg., administration building and lighting equipment at Rhode Island Airport. $25,000 or more. Noted May 5.

POWER AND LIGHTING

PROPOSED WORK

Mo., Excelsior Springs — Missouri Light & Power Co., 740 Bd. of Trade Bldg., St. Louis, 6 in. pipe line from natural gas field west of Liberty to here.

New York—Elmira Water Light & R.R. Co., Elmira, granted permit electric plant and distribution system in Big Flats; gas distribution system in Elmira. Noted Nov. 19.

N. Y., LeRoy—Tri-County Natural Gas Co., 29 East Ave., Rochester, granted permit gas distribution system. Noted Feb. 2.

N. Y., Pitcairn—Harrisville Electric Light & Power Co., Harrisville, applied to Pub. Serv. Comn. for permit to construct electric plant and distribution lines, in Pitcairn and part St. Lawrence Co.

N. B., St. John — New Brunswick Electric Power Comn., plans extensions through Northumberland County. $750,000.

BIDS ASKED

Pa., Phila.—June 23, by Dpt. P. Wks., F. H. Craven, dir. City Hall Annex, gas lighting throughout city for 2½ years beginning July 1, 1932. To exceed $1,000,000.

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Power and Lighting (Continued)

CONTRACTS AWARDED

Utah, Logan—State Building Comn., wiring administration building, State Agricultural College, to Cache Valley Electric Co., Logan, $5,269.

PARKS AND SPORTS

PROPOSED WORK

Calif., Arcadia—J. M. Smoot, Biltmore Hotel, Los Angeles, leased portion of Santa Anita Rancho, and preparing plans establishing race track, incl. grand stand, stables, club house, Santa Anita Ranch. $800,000. Architect not appointed.

Calif., Los Angeles—A. Pantages, 590 North Vermont Ave., leased 200 acre site and plans race track, 22,000 seating capacity grandstand, club house, stable, stalls, etc., Redondo and Imperial Aves., near Inglewood, $750,000.

Miss., Bay St. Louis — See "Piers and Wharves."

Mo., St. Louis—Bd. Alderman passed bill for appropriating $167,456 for establishing, developing playgrounds at Grattan and Park Aves., Hickory and Dillon Sts.

N. Y., Brooklyn—Fewster Stadium, Inc., W. L. Fewster, pres., plans by A. P. Williams, engr. and archt., 146 West 99th St., metal grandstands, Stillwell Ave. $25,000.

BIDS ASKED

Conn., Bridgeport—June 13, by City, Bd. Park Comrs., frame, brick club house, golf course, Wheeler Park. $25,000. E. Caldwell, 886 Main St., engr. Noted Apr. 14.

Kan., Kansas City—See 'Contracts Awarded."

Mo., St. Louis—See "Contracts Awarded."

CONTRACTS AWARDED

Kan., Kansas City—Riverside Race Track Co., W. P. Kyne, mgr., reconstructing 94 x 176 ft., concrete, timber grandstand, 3,000 seating capacity, on Hy. 59, Platte Co., 4 mi. northwest of here, day labor. $40,000. F. C. Gunn, 1108 National Fidelity Bldg., archt.

Mass., Belmont—Town, Playground & Park Comn., concrete swimming pool at Underwood Playgrounds, to National Gunite Contg. Co., 82 West Dedham St., Boston.

Mo., St. Louis — Sylvan Beach, Inc., 4339 Lindell Blvd., 100 x 200 ft., rein.-con. swimming pool, 1 story, 120 x 150 ft. concrete frame bath house, several 1 story, 20 x 30 ft. frame cottages, day labor. P. M. Perkinson, Edna and Virginia Sts., Kirkwood, engr. Noted May 12.

HEATING AND VENTILATING

PROPOSED WORK

Calif., Pasadena—California Institute of Technology preparing plans and takes bids from selected list of contractors air conditioning plant, heating, cooling, ventilating system for Optical Building, system will produce constant temperature conditions in lens-making room, 1201 East California St.

Man., Brandon—Manitoba Power Comn., 146 Notre Dame Ave. E., Winnipeg, extending steam heating on Lorne Ave. C. B. Hallwood, c/o owner, purch. agt. and G. F. Sykes, City Hall, city clk.

BIDS ASKED

Me., Augusta—State, Superintendent P. Buildings, State House, taking bids furnishing, installing two 150 hp. coal burning boilers, incl. certain changes in existing radiators, and piping now in place.

Mass., Brookline—June 13, by Town, Bd. Selectmen, Town Hall and Stone-Underhill Co., engrs., 171 Harrison Ave., Boston, installing steam piping and oil burning equipment at heating and lighting plant, Tappan St. $25,000.

N. Y., Corona—June 14, by W. C. Martin, archt. and supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, heating, ventilating, plumbing, drainage, electrical work and lighting fixtures, for P. S. 19, 98th and 99th Sts., 41st and Roosevelt Aves., for Bd. Educ., 500 Park Ave., New York.

N. Y., Flushing Heights—June 14, by W. C. Martin, archt. and supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, heating, ventilating, plumbing, drainage, electrical work and lighting fixtures for P. S. 163, 59th Ave. from 159th to 160th Sts., for Bd. Educ., 500 Park Ave., New York.

Pa., New Castle—June 15, by H. M. Marquis, secy. New Castle School Bd., 116 East St., furnishing, installing new boiler plant at Thaddeus Stevens School, pump and receiving tank at North St. School, 1 complete set grates and crushers for No. 1 boilers, Ben Franklin Jr. High School.

CONTRACTS AWARDED

N. Y., Dannemora — Dpt. Correction, State Office Bldg., Albany, steam duct and tunnel, at Dannemora State Hospital, to Boyojohn & Barr, Warwick, $27,774.

UNCLASSIFIED

PROPOSED WORK

Kansas—PIPE LINE—Standard Oil Co. of Kansas, Wichita, preliminary plans 150 mi. pipe line extension from western terminus of main line at Eldorado to McPherson County pools and necessary feeder lines. $1,000,000. Private plans.

N. Y., New York — MECHANICAL EQUIPMENT—A. P. Worrall, 125 West 74th St., new plumbing and sprinkler system in store and apartment, 126 East 57th St. $25,000. Caughey & Evans, 29 West 34th St., archts.

Man., Tuxedo—RIDING HORSE STABLES—Tuxedo Riding Club, Tuxedo, 40 x 110 ft. riding horse stables, incl. dressing rooms for ladies and gentlemen, tack room and groom's room. Architect not appointed.

BIDS ASKED

Maryland—BULKHEAD—June 14, by State Roads Comn., G. C. Uhl, chn., Baltimore, 470 ft. steel sheet piling bulkhead, Contr. C-55-811, Calvert Co.; adv. E. N.-R. June 9.

N. Y., Ogdensburg—EXIT FACILITIES—June 15, by Dpt. Mental Hygiene, State Office Bldg., Albany, exit facilities and fire stops St. Lawrence State Hospital.

CONTRACTS AWARDED

Calif., Oakland—CULVERT EXTENSION—W. W. Chappell, city clk., constructing 8th Street Culvert and Extension and Lake Merritt Control House and Gates, incl. 8 concrete boxes, 53 ft. long, 6 x 6 ft. concrete, steel, tile control house, steel control gates, to Duncanson-Harrelson Co., de Young Bldg., San Francisco, $22,258.

N. Y., College Point — RADIO STATION — Knickerbocker Broadcasting Co., 1697 Bway., New York, radio station, coupling building and garage, 28th Ave. and College Point Causeway, to J. Auserehl, 139-11 Queens Blvd., Jamaica.

Pa., Grove City — MAUSOLEUM — Mercer County Memorial Assn., c/o G. Peranteau, for Pinecrest Mausoleum, bronze, art glass, granite, to Smith Constr. Co., Grove City. Est. $165,000. Noted May 5, under "Buildings—Unclassfied."

MATERIALS

PROPOSED WORK

LUMBER—**Stanton, Neb.**—Stanton Co., W. F. Fullner, clk., purchasing 3 x 12-14-16-18 ft. and 20 ft. 4 x 12-20 and 24 ft. 4 x 16-28-30 and 32 ft. standard sawn lumber red cedar, creosoted yellow pine piling for use in bridge construction and repairs during year.

BIDS ASKED

ROAD GRAVEL, etc.—**Mississippi**—June 21, by State Hy. Comn., c/o E. D. Kenna, dir., Jackson, washed road gravel, slag, crushed stone, crushed and washed gravel, road oils, asphalts and tars, creosoted lumber, creosoted piling, road markers, and signs, road signs and posts, and paints.

LUMBER—**St. Louis, Mo.**—June 28, by Bd. P. Serv., City Hall, 1,372 pcs. 4 x 12-16 S4S, 2,744 pcs. 4 x 12-8 S4S, 130 pcs. 4 x 12-14, S4S, 1,100 pcs. 4 x 6-16 S4S and 150 pcs. 4 x 14-22 rough short leaf dense yellow pine No. 1 lumber treated with Wolman salts for use in redecking 21st Street Viaduct over Missouri Pacific & Terminal R.R. in Mill Creek Valley. Private plans.

TARVIA—**Hillsdale, N. J.**—June 14, by Bd. Boro Council, Boro Hall, furnishing, applying tarvia B. $5,000. Hering & Westphal, 1 Westwood Ave., Westwood, engrs.

ASPHALT, etc.—**Trenton, N. J.**—June 16, by State Purchase Comn., 318 State House, asphalt and tars, lignin binder, crushed stone, slag, gravel. $5,000 or more.

ROAD GRAVEL—**Long Island City, N. Y.**—June 14, by G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., 13,057 cu.yd. cementitious road gravel to Bureau Hys. as directed, Queens Boro.

ROAD OIL, etc.—**Pierre, S. D.**—June 13, by State, C. McCaffree, dir. Purchase and Printing, 1,860,000 gal. road oil and cutback asphalt.

CABLE—**Spokane, Wash.**—June 16, by C. T. Bogart, city purch. agt., 4,400 ft. aerial cable, 20 conductors.

WATER PIPE—**Winnipeg, Man.**—June 13, by Peterson, city clk., City Hall, water pipe to be used in proposed waterworks extensions. W. P. Brereton, 223 James Ave., engr.

CONTRACTS AWARDED

CAST IRON PIPE—**Glendale, Calif.**—City, 2,500 ft. 24 in. Class 250 c.i. pipe, to American Cast Iron Pipe Co., 412 West 6th St., Los Angeles, at $3.95 per ft.; 10 tons Class D fittings, to Alhambra Fdry. Co., Alhambra, at $78 per ton.

ROAD OIL—**Iowa**—State Hy. Comn., Ames, road oil for use on Projects in Adams, Lucas, Warren, and Taylor Counties, to White Eagle Oil Corp., 606 Vandalia St., St. Paul, Minn.; projects in Fayette, Montgomery and Winneshiek Counties, to Standard Oil Company of Indiana, Equitable Bldg., Des Moines; for use on Project F-81, to Barry Asphalt Co., Chicago, Ill.

CAST IRON PIPE — **Opeloussas, La.** — See "Waterworks."

CAST IRON WATER PIPE—**Beverly, Mass.**—Municipality, 2,000 ft. 12 in. c.i. water pipe, to Warren Fdry. & Pipe Co., 75 Federal St., Boston.

CASTINGS—**Boston, Mass.**—Water Division, Metropolitan Dist. Comn., 20 Somerset St., furnishing bell and spigot pipe as specified, to Warren Pipe & Fdry. Co., 75 Federal St., $9,856. Noted May 12.

CRUSHED STONE—**Fall River, Mass.**—City, P. Wks. Dpt., City Hall, furnishing various sized crushed stone as required, to Montaup Sand & Gravel Co., Swansea. Size 3 at $1 per ton, and Sizes 1 and 2, at $1.35 per ton.

CAST IRON PIPE — **Somerville, Mass.** Municipality, 125 tons 8- to 12-in. c.i. pi to Donaldson Iron Co., Emaus, Pa.

CAST IRON WATER PIPE—**Monroe, Mich.** Municipality, furnishing 5,000 ft. 6- to 12 c.i. water pipe, to R. D. Wood & Co., Floren N. J.

ASPHALTIC ROAD OIL—**Austin, Minn.** City, 100,000 gal. asphaltic road oil, to Standard Oil Co., 2 Copeland Ave., La Crosse, W Noted May 19.

CENTRIFUGAL PIPE—**St. Paul, Minn.**—City to Grinnell Co., 240 7th Ave. S., Minneapolis, 15,840 lin.ft. 12 in. centrifugal pipe at $1.18 per ft., 7,920 ft. 16 in. $1.815, 2,640 ft. 20 in. $2.55, total $39,798; to Central Fdry. Co., 332 South Michigan Ave., Chicago, Ill., 12,000 lin.ft. 6 in. pipe at 52c. per ft., 5,000 ft. 8 in. 71.5c., total $9,815.

ROAD OIL—**Kansas City, Mo.**—See "Streets and Roads."

CONTACT RAIL MATERIALS — **New York, N. Y.**—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., contact rail materials, to Walthaw Corp., 1860 Bway., $10,751. Noted Apr. 7.

TREATED TIES — **New York, N. Y.** — Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., supply treated ties, Order 19, to Atlantic Creosoting Co., 17 Battery Pl., $115,708; special work for Rapid Transit Railroads, to William Wharton Jr. & Co., 110 East 42nd St., $54,788. Noted May 12.

STEAM CINDERS—**New York, N. Y.**—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., 20,000 cu.yd. steam cinders, to Empire Cinders Co., 341 Madison Ave., $13,700. Noted Apr. 28.

PIPE, TIMBER, etc.—**Raleigh, N. C.**—State Division Purchase & Contr., 3 carloads pipe, to Dixie Culvert & Metal Co., Raleigh, $2,881; 2 carloads, to Wheeling Corrugating Iron Co., 9th & Perry Sts., Richmond, Va., $2,788; 23,750 ft. B.M. creosoted timber, to North State Creosoting Co., $1,049; 3,333 lb. reinforcing steel, to Southern G. F. Co., Kinney Bldg., Charlotte, $82; 7,661 lb. reinforcing steel, to O. Z. Wrenn & Co., Kinney Bldg., Charlotte, $183. Grand total $6,983.

CAST IRON PIPE — **Hershey, Pa.** — Municipality, 2,100 ft. 30 in. c.i. pipe, to Donaldson Iron Wks., Emaus, Pa.

ASPHALT—**Superior, Wis.**—State Hy. Comn., to Shell Petroleum Corp., Shell Bldg., St. Louis, Mo., 840,000 gal. asphalt Type "CC," Polk, Rusk and Barron Counties $33,150, 1,160,000 gal. for Ashland, Bayfield and Douglas Counties $45,240, 910,000 gal. Sawyer, Washburn and Burnett Counties $35,490; to American Mexican Refining Co., 11 South LaSalle St., Chicago, Ill., 110,000 gal. asphalt. Type "CC" 60-70, $5,808. Grand total $119,688. Noted May 19.

ASPHALT—**Wisconsin Rapids, Wis.**—State Hy. Comn., Citizens Bank Bldg., 208,000 gal. asphalt Type "C" 50-60, to Standard Oil Co. of Indiana, 910 South Michigan Ave., Chicago, Ill., $6,954; 76,000 gal. Type "C" 50-60 and 60-70, Class 1 asphalt, and applying 76,000 gal. Type "C" 50-60, Class 1 in Green Lake Co. to Amer.-Mexican Refining Co., 11 South LaSalle St., Chicago, Ill., $3,891 and $638 respectively. Grand total $11,483. Noted May 12.

EQUIPMENT

PROPOSED WORK

NEW PUMP—**Indianapolis, Ind.**—Bd. Park Comrs., purchasing 300 g.p.m. pump, 1,780 ft. pipe, valves and tank for Garfield Park. $5,606. J. E. Perry, 4231 Guilford Ave., engr.

WATERWORKS EQUIPMENT—**Marion, Ind.**—City plans in progress new equipment for municipal waterworks. $5,000. J. W. Moore & Son, Knights of Pythias Bldg., Indianapolis, engrs.

BOILER CONDENSER—**Springfield, O.**—City power plant improvements, incl. boiler condenser and addition to present building. Burns & McDonnell Eng. Co., 400 Interstate Bldg., Kansas City, Mo., engrs.

SPRINKLER—**Waupaca, Wis.**—City, F. A. Houseman, clk., plans motor truck sprinkler.

BIDS ASKED

CONCRETE MIXER—**Riverside, Calif.**—June 17, by Sherman Indian Institute, not less than 10 cu.ft. dry materials and 7 cu.ft. mixed concrete, gas driven concrete mixer.

TRACTOR, etc.—**Edwardsville, Ill.**—June 13, by Madison Co. Bd., tractor and road graders.

ROTARY SAND DRYER—**New York, N. Y.**—June 15, by S. Levy, pres. Manhattan Boro, Municipal Bldg., one rotary sand dryer at municipal asphalt plant, at 90th St. and East River.

BOOSTER PUMPS—**Youngstown, O.**—June 18, by Water Comn., Dan Parish, furnishing, installing 4 booster pumps for city water system, 1 at Evans Field and sites for others to be selected. $35,000.

MOTOR DRIVEN LATHES—**Pittsburgh, Pa.**—June 14, by Bd. P. Educ., H. W. Cramblet, secy., Administration Bldg., twelve 13 in. x 5 ft. motor driven engine lathes; one 13 in. x 5 ft. engine lathe, dif. attach., for Westinghouse High School.

Equipment (Continued)

WATER TUBE BOILER — **Richland Center, Wis.**—June 15, by City, G. C. Lucky, clk., 500 hp. water tube boiler, under feed stoker with force draft automatically regulated, soot blowers and breeching to be installed at electric light plant.

CONTRACTS AWARDED

ROAD SCRAPERS, TRACTORS, etc.—**Indiana**—Staten Hy. Comn., Indianapolis, 7 road scrapers and 4 Allis-Chalmers tractors, to H. W. Taylor, 19 South Senate St., **Indianapolis**, $2,562 and $5,192 respectively; 13 road scrapers and 3 road maintainers to J. D. Adams Co., 217 South Belmont St., Indianapolis, $4,728 and $1,850 respectively; 7 road scrapers, to Willet Mfg. Co., Indianapolis, $2,500; 2 road maintainers, to Perry-Wilson Co., 345 East South St., Indianapolis, $1,050. Grand total $17,882.

GATE VALVES—**Boston, Mass.**—City, 801 City Hall Annex, gate valves, to Kennedy Valve Mfg. Co., East Water St., Elmira, N. Y., $2,572.

WATER METERS, etc.—**Salem, Mass.**—City, D. W. Hamilton, purch. agt., water meters and special grates, to Union Water Meter Co., 33 Hermon St., Worcester, $693. Est. $1,000.

HIGHWAY SIGNS—**Virginia**—At office State Hy. Dpt., Richmond, winding road and narrow bridge signs, to National Service Corp., Elizabeth, N. J., $10,406; right-left curve signs, to Gopher Stamp & Die Co., 78 Chicago Ave. E., St. Paul, Minn., $9,437; turn and slow signs, to National Colortype Co., Bellevue, Ky., $7,815. Grand total $27,658.

FOREIGN

India, Lahore—June 27, by General Manager North Western Railways, 25 locomotive boilers for 5 ft. 6 in. gage and 9 locomotives for 2 ft. 6 in. gage.

South Africa—June 24, by City Clerk, Johannesburg, South Africa, supply of double flanged stop valves, hydrants, square penstocks, flat outlet valves, stop valves with spindle and head stocks.

Union Socialist Soviet Republics — Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, plans group tourist and commercial hotels in various locations. H. O. Hamilton, 101 Park Ave., New York, archt.

Union Socialist Soviet Republics — Soviet Govt., c/o Amtorg Trading Co., 261 5th Ave., New York, plans locomotive works, Novocherkassk, North Caucasas, to exceed $1,000,000, **maturity late 1932**; sketches hospital at Kounrad, $1,000,000; group of plants, incl. steam power plant, brick, concrete block manufacturing plant, saw mill, wood working plant, at Karagonda, by technical aid contracts; metallurgical equipment plant, Donetz Basin, $3,400,000.

Commercial Buildings

PROPOSED WORK

Ia., Cedar Falls—Iowa State Teachers College, W. H. Gemmill, secy., State House, Des Moines, soon takes bids 3 story, basement, 124 x 178 ft., brick, concrete, Bedford stone, Georgian style commons building. $200,000. Proudfoot, Rawson, Souers & Thomas, 810 Hubbell Bldg., Des Moines, archts.

Mass., Amherst — Commonwealth of Massachusetts, Dpt. Educ., landscape architecture building at State College. $150,000. Architect not appointed.

Mass., Cambridge—New England Telephone & Telegraph Co., 50 Oliver St., Boston, soon lets contract 3 story, basement, brick telephone exchange, plain found., Ware St. $150,000 or more. Densmore, LeClear & Robbins, Park Sq. Bldg., Boston, archts. Noted Apr. 21.

Mass., Milton—Mattapan Baptist Church, A. B. Webber, pastor, revised plans by Woodbury & Stuart, 581 Boylston St., and bids latter part of month, 2 story, 60 x 100 ft., limestone, artificial stone church, Blue Hills Parkway and Eliot St. $150,000.

Mass., Watertown—Town, School Dpt., altering and constructing 2 story, basement, high school addition. $150,000 or more. Architect not appointed.

Me., Orono—University of Maine, H. Boardman, pres., bids after June 15, two 2 story, 50 x 125 ft. wing additions to Arts-Science Building. $150,000. Crowell & Lancaster, 6 State St., Bangor, archts. Noted May 12.

N. J., Cedar Knolls—Presbyterian Church of Cedar Knolls, plans by J. J. Vreeland, 16 Blackwell St., Dover, 1 story, basement, brick, frame church. $150,000. Noted May 12.

N. J., Collingswood—First Methodist Episcopal Church, J. B. Kulp, 368 Park Ave., plans by Simon & Simon, Phila. Trust Bldg., Phila., Pa., 1 story, basement, church, concrete found.

N. J., Elizabeth—Westcourt Apartments, Inc., M. Falkenflick, pres., 635 Wyoming Ave., rejected bids 3 story, basement, brick, steel apartment, 241-43 Westfield Ave. $150,000. J. B. Beatty, 208 Broad St., archt. Noted Feb. 11.

N. J., Jersey City—Fanning & Shaw, archts., 40 Ward St., Paterson, soon lets general contract altering and constructing 1 story, basement, mezzanine church addition, Pavonia Ave., for St. Joseph's Roman Catholic Church, J. A. Duffy, rector, Pavonia Ave. $150,000.

N. J., Jersey City—A. Davis, archt., 140 Montgomery St., rejected bids 2 story, basement, 50 x 100 ft., brick, steel home, Liberty and St. Pauls Aves., for Polish-American Democratic Club, L. Komiski, in charge, 176 Pavonia Ave. Est. $150,000.

N. J., Lodi—Bd. Educ., A. Cody, pres., Union St., plans completed by P. Pirrone, 104 Midland Ave., Junior and Senior High School, 2 story, basement, brick, steel, Westervelt Pl. and 1st St. $340,000. Noted May 5.

N. J., Lyndhurst—C. Daiker, engr. and archt., 164 Valley Brook Ave., soon lets contract altering and constructing 1 story, basement, brick, steel, masonic temple addition, Riverside Ave., for Adoniram Masonic Assn., Inc., 318 Riverside Ave. $150,000. Noted June 2.

N. J., Paterson—Owner c/o J. R. Bellamo, archt., 6 Park Ave., parochial school addition. $150,000. **Maturity indefinite.**

N. J., Red Bank—Clayton & Magee, 19 Broad St., altering and constructing 3 story, basement, brick, steel office, store addition. $150,000. **Maturity in Septemper.** Architect not appointed. Noted Mar. 24.

N. J., Teaneck—St. Anastasias Roman Catholic Church, Robinson St., will award contract in fall 2 story, basement, 100 x 125 ft., brick, steel school, church, Teaneck Rd. and Robinson St. $150,000. Bids in. DePace & Juster, 151 West 45th St., New York, archts. Noted Mar. 31.

N. Y., Dobbs Ferry—Bd. Educ. will award contract late in June high school, incl. manual training facilities. To exceed $800,000. Bids in. Knappe & Morris, 171 Madison Ave., New York, archts.

N. Y., New York—Columbia University, W. A. Boring, in charge, 116th St. and Bway., sketches by H. E. Bahr, c/o School of Architecture, 30 story college, on campus. $7,000,000.

N. Y., New York — Herald Square Realty Corp., 527 5th Ave., 2 story office and store, 28th St. and Bway. $150,000.

N. Y., New York—Todd, Robertson & Todd Engineering Corp., 347 Madison Ave., will relet in August general contract 9 story, stores and showroom, 5th Ave. between 50th and 51st Sts., for Metropolitan Square Corp., 60 Bway. Group of undisclosed Italian firms, lessee.

Pa., Meadville — Allegheny College, E. R. Porter, supt. in charge, 520 Main St., plans by C. W. Bolton & Son, Schaff Bldg., Phila., Ford Memorial Chapel, 1 story, basement, stone, college campus. **Maturity indefinite.**

Pa., Phila.—Bell Telephone Co., 1835 Arch St., plans by J. T. Windrim, Commonwealth Bldg., 12 story exchange and office building, 19th and Race Sts. $500,000.

Pa., Phila. — Bd. Educ., plans by I. P. Catharine, Bd. Pub. Educ. Bldg., 21st St. and Parkway, and takes bids about August or September, new girl's high school, 17th and Spring Garden Sts. $500,000.

Pa., Phila.—Federal Reserve Bank bids latter part of month new bank building, 9th and Chestnut Sts. $1,000,000. P. P. Cret, Architect's Bldg., archt. Noted Dec. 7.

Pa., Phila.—Philadelphia School of Design for Women, Broad and Master Sts., and Moore Institute of Art, Science and Industry, plan building program to be financed from $3,000,000 endowment fund, to include Art Institute, to exceed $150,000. **Maturity indefinite.** Architect not appointed.

Vt., St. Johnsbury—Globe Theatre rebuilding theatre. $150,000. **Maturity indefinite.**

Wis., Stevens Point—St. Stephens Catholic Congregation, 635 Clark St., plans by Childs & Smith, 720 North Michigan Ave., Chicago, Ill., 2 story, basement, brick, steel, rein.-con. school. $150,000. Noted May 12.

Ont., Peterborough — Sisters of Mount St. Joseph, Peterborough, plans by A. W. Holmes, 79 St. Joseph St., Toronto, 3 story, basement brick, stone academy. $150,000.

BIDS ASKED

D. C., Wash.—June 15, by District Comrs., District Bldg., constructing Taft Junior High School, South Dakota Ave., 18th and Perry Sts. N. E.

D. C., Wash.—June 15, by District Comrs., District Bldg., Taft Junior High School.

Ind., Richmond—June 11, by State Hospital Assn., brick, steel ward building addition. $150,000. Private plans.

N. J., Asbury Park—See "Contracts Awarded."

N. J., Bradley Beach — See "Contracts Awarded."

N. J., Englewood—O. C. Licht, archt., 4 North Dean St., bids about July 15, general contract altering and constructing 2 story, basement office, store addition Palisade Ave. and Dean St., for R. Livingston, 13 East Palisade Ave. $150,000. Noted Feb. 18.

N. J., Fort Lee—See "Contracts Awarded."

N. J., Linden—Polish National Home, M. Novak, pres., Roselle St., taking bids general contract altering and constructing 1 story, basement, brick, steel, home addition, Roselle and Siegler Sts. $150,000. S. W. Golinski, 37 South 21st St., Newark, archt.

N. J., Long Branch—H. I. Braun, archt., 191 Bway., bids about July 22, new sketches altering and constructing 3 story, basement, brick, steel store, apartment addition, 186-90 Bway., for J. Heleotis, 804 Bergh Ave. $150,000. Noted Feb. 4.

N. J., Madison—R. S. Shapter, archt., 382 Springfield Ave., Summit, bids about June 15, general contract 2 story, basement, 65 x 150 ft. community house with two 2 story, basement, 50 x 55 ft. wings, brick, steel, stone, Kings Rd. between Green and Maple Sts., for Bd. City Council, 2 Green Valley Rd. $150,000. Noted May 12.

N. J., Newark—See "Contracts Awarded."

N. J., Union City—Mahnken & Schultz, 26 Journal Sq., Jersey City, bids in September, general contract 2 story, basement, brick, steel store, office, Bergenline Ave. and 36th St., for A. Holthousen, 713 Bergenline Ave. $150,000. Noted Dec. 31.

N. Y., Brooklyn—See "Contracts Awarded."

O., Cincinnati—June 27, by Bd. Educ., 511 West Court St., 2 story, basement, 73 x 158 ft., brick, rein.-con. school, plain found., Mears St. $175,000. Kruckenmeyer & Strong, St. Paul Bldg., archts. Noted Apr. 28.

O., Hamilton—June 22, by C. Holderfer, clk., Junior High School, 3 story, basement, brick, concrete, plain found. $400,000. F. G. Mueller, Rentschler Bldg., Hamilton, archt. Noted May 12.

CONTRACTS AWARDED

Calif., San Francisco—W. C. Ambrose, archt., 605 Market St., 6 story, basement, steel, concrete apartment, for F. W. Hanchett, 34 Highland St., to G. P. W. Jensen, 320 Market St., $158,556. Noted Apr. 21.

Calif., Van Nuys—Bd. P. Wks., City Hall, Los Angeles, general contract city hall, to H. M. Baruch Corp., 625 South Olive St., Los Angeles, $89,985. Noted May 26, under "Contracts Awarded."

Ind., Michigan City—St. Marys Parish, general contract 2 story, basement, brick, steel school, to Tatus & Anderson, 724 Belden Ave. Est. $150,000. Noted Feb. 4.

Md., Woodensburg (mail Reisterstown) — Smith & May, archts., Baltimore Trust Bldg., Baltimore, 1 and 2 story, 59 x 127 ft. and 34 x 90 ft. local stone, structural steel, brick school and cottage for Montrose School for Girls, to North-Eastern Con. Co., 6 West Madison St., Baltimore. $150,000. Noted May 26.

Mass., Medford—First Natl. Bank, 1 Salem St., altering and constructing 2 story, basement, brick, stone, steel, concrete bank addition, concrete found., to C. S. Patten, 638 Main St., Melrose. Est. $150,000 or more. Noted May 12.

Minn., Minneapolis—State, c/o Comn. of Administration & Finance, 4 and 5 story, basement, brick, rein.-con. nurses' home, on State University Campus, to E. Bjorklund, 914 Builders Exchange, St. Paul, $214,968. Noted May 12.

N. J., Asbury Park—R. W. Stout, Electric Bldg., 6 story, basement, brick, steel apartment, Deal Lake Dr. and Webb St., separate contracts. $200,000. Private plans.

N. J., Bradley Beach—Bd. City Comrs., 701 Main St., brick, steel casino, Boardwalk between Newark and Park Pls., by unemployed citizens. $150,000. Bd. will purchase materials. Noted May 12.

N. J., Fort Lee—G. W. Dexter, archt., 201 Main St., 4 story, basement, brick, steel apartment, Jerome Ave., separate contracts, for M. Rubin, c/o J. J. Vogel, 204 Main St. $150,000.

N. J., Newark—Garden Theatre Co., 892 18th Ave., altering and constructing 2 story, basement, brick, steel theatre addition, Lawrence and Market Sts., separate contracts. $150,000. A. J. Silberstein, 892 18th Ave., archt.

N. J., Newton—Little Flower Monastery, M. Heinlein, in charge, general contract 2 story, basement, 40 x 170 ft., brick, steel, stone monastery and training school, to Church Constr. Co., 1387 Sedgewick Ave., New York, N. Y. Est. $150,000. Noted May 12.

N. J., Passaic—Polish Peoples Home, 1 Monroe St., general contract altering and constructing 2 story, basement, brick, steel home addition, to J. Manowski, 168 Brook Ave. Est. $150,000. Noted June 2.

N. J., Union City — Sears Roebuck & Co., Arthington and South Homan Aves., Chicago, Ill., general contract 3 story, basement, 7 story tower, brick, steel, terra cotta, Hudson Blvd., 32nd St. and Summit Ave., to Deakman Wells Co., 921 Bergen Ave., Jersey City. Est. $1,500,000. Noted Apr. 28.

N. J., Vineland — First Methodist Episcopal Church, general contract rebuilding 2 story, basement, brick, steel church, to H. J. Homan & Co., 18th and Cherry Sts., Phila., Pa. Est. $150,000. Noted Feb. 18.

N. Y., Brooklyn — Brooklyn and Queens Y. M. C. A., 55 Hanson Pl., general contract 5 story Y. M. C. A. building, to W. Kennedy

Commercial Buildings (Continued)

Constr. Co., 215 Montague St. Est. $150,000. Noted Apr. 21.

N. Y., Brooklyn — Fourteenth Avenue and 83rd Street Corp., 885 Flatbush Ave., 2 story apartment, 83rd St. and 14th Ave., separate contracts. $150,000. B. A. Glassmen, 44 Court St., archt.

N. Y., Newburgh—S. Kreisel, 139 Bway., general contract 2 story, basement, brick, steel, limestone, furniture store addition, 123-5 Bway., to B. M. Higginson, 248 Bway. Est. $150,000.

Pa., Phila.—Schraffts Stores, 58 West 23rd St., New York, steel work for 4 story, fireproof store for manufacturing and selling candy, 13th and Chestnut Sts., to Morris, Wheeler & Co., Inc., Roberts Ave. and Fox St. Est. $350,000. Noted June 2.

Tex., Austin—City, c/o A. Johnson, mgr., general contract 2 story, 68 x 195 ft., natural stone, rein.-con. library, 9th and Guadalupe Sts., to H. E. Wattinger, 401 Paul St., $106,636.

Vt. Brattleboro—Brattleboro Retreat, H. G. Ripley, supt., Brattleboro, 4 story, basement, brick infirmary, plain found., to George H. Reed Co., Inc., 24 Franklin St., Greenfield, Mass. Est. $150,000. Noted May 12.

Man., Winnipeg—A Sinnott, archbishop, 353 St. Mary's Ave., 2 story, 80 x 140 ft., brick, stone addition to St. Pauls College, Ellice and Vaughan Sts., to Couture & Toupin, 272 Beaverbrook St. Noted Mar. 31.

Ont., Ottawa—Ottawa Separate School Bd., 16 room school, Guignes Ave., to E. Monette, 61 Fairmont Ave., $104,000; heating for same and adjoining school, to Trane Co. of Canada Ltd., 639 King St. W., Toronto. Noted Apr. 21.

Industrial Buildings

PROPOSED WORK

Calif., Farmersville — PLANT — Owner, c/o Frank E. Bowden, San Joaquin Valley, mgr., Fresno, plans dehydration plant. $50,000.

Calif., Santa Rosa—COLD STORAGE—Grace Bros., 9th and Wilson Sts., rebuilding plant. $200,000 loss, incl. contents stored.

Colo., Denver—ORE MILL—Colorado Gold Refineries, Inc., H. W. Robinson, pres., building new ore mill for treating gold bearing ores. $250,000.

Ind., Veedersburg—LIGHT and POWER PLANT—City plans by J. W. Moore & Son, 838 Pythian Bldg., Indianapolis, brick, steel municipal light and power plant. $40,000.

Ia., Spencer—PACKING PLANT—Swift & Co., Union Stock Yards, Chicago, Ill., meat packing plant. $40,000.

La., Shreveport—PLANT—Allen Lumber Mfg. Co., reconstructing plant. $60,000. **Maturity indefinite.**

Mass., Lawrence—FURNITURE STORAGE, etc.—Globe Furniture Co., 184 Essex St., rebuilding furniture storage and refinishing shop, etc., damaged by fire. To exceed $75,000. **Maturity indefinite.**

N. J., Grantwood — GARAGE — Cliff Motor Corp., 508 Anderson Ave., sketches made by R. J. Cadien, 545 Gorge Rd., 1 story, basement, brick, steel, Anderson and Kearny Aves. $40,000. **Maturity indefinite.**

N. J., Hoboken—FACTORY—R. B. Davis Co., 38 Jackson St., 1 story, basement, 125 x 200 ft. manufacturing plant, Jackson St. $75,000.

N. J., Hoboken—PAPER MANUFACTURING PLANT — Owner, c/o Walter Kidde Co., Inc., engrs. and archts., 60 West St., Bloomfield, sketches 2 story, basement, corrugated paper manufacturing plant. $40,000.

N. J., Passaic—LAUNDRY—Passaic Laundry Service, 20 Passaic Ave., reconstructing and rebuilding laundry, 20 Passaic Ave., damaged by fire. $40,000.

N. Y., Brooklyn—LAUNDRY—Avenue Z Wet Wash Laundry, Avenue Z and 18th St., plans by H. G. Harrington, 311 100th St., 2 story addition.

N. Y., Brooklyn — PACKING PLANTS — A. Gobel, 40th St. and 11th Ave., plans by O. S. Schlich, engr. and archt., 136 Liberty St., New York, altering two 4 story, packing plants, Rock St. and Morgan Ave.

N. Y., Brooklyn — GARAGE and LOFT — Nakoma Realty Co., 108 Jewel St., plans by J. J. Millman, 191 Joralemon St., altering and extending 2 story, brick, concrete, Frost and Leonard Sts.

N. Y., Brooklyn—MEAT PACKING PLANT—J. Morrell & Co., Ottumwa, Ia., plans by H. P. Henschien, 59 East Van Buren St., Chicago, Ill., 2 story, 76 x 180 ft. meat packing plant, Kent Ave. and 10th St. $150,000.

N. Y., New York—WAREHOUSE—Belvedere Estates, Inc., J. Kissling, pres., 690 8th Ave., plans by J. Eckemann, 236 West 55th St., altering 5 story store, apartment into storage and stores, 940 8th Ave. $40,000.

N. Y., New York — GARAGES, etc. — A. Farber, 302 Madison Ave., plans by P. Bardes, 230 Grand St., two 36 x 40 ft. service garage and repair shops, rear 302 Madison Ave.

N. Y., New York—GARAGE—J. Garufi, 2736 Seward Ave., bids late in July, general and separate contracts service garage, Homer and Havermeyer Aves. M. W. Del Gaudio, 545 5th Ave., archt. Noted May 26.

N. Y., New York—BAKERY, etc.—A. Streit, 152 Rivington St., plans by A. Fisher, 1431 Bway., altering 6 story, 25 x 88 ft. store and apartment into bakery and storage.

N. Y., New York — BAKERY, etc. — G. Giattino, 339 East 106th St., plans by F. Burkhard, 640 Rosedale Ave., altering 3 story, bakery, storage, apartment, incl. reconstructing foundations, new bake oven, new dumbwaiter, boiler room and plumbing, 339 East 106th St. $40,000.

N. Y., New York—STORAGE—Northwestern Fruit & Produce Co., M. Unger, pres., 426 East 102nd St., plans by R. Gottlieb, 4756 3rd Ave., altering 1 story to 2 story garage and shop into warehouse and 50 x 100 ft. addition, 426 East 102nd St.

N. Y., New York—STORAGE—Report Realty Corp., 3 Bible House, plans by R. Shutkind, 147 4th Ave., altering three 5 story, storage, store and apartments, incl. chimney, boiler-room work, new bath rooms, 333-35-37 East 13th St. $50,000.

N. Y., New York—WAREHOUSE—United States Trucking Corp., 372 South St., plans by P. Bardes, 230 Grand St., altering 4 story wagon room and stable into storage warehouse, 123 Bank St. $40,000.

Pa., North Berwick—MILL—Bernesco Silk Mills Co., silk mill. $40,000. **Maturity indefinite.**

Tex., Dallas — WAREHOUSE — Texas Oak Flooring Co., 5520 Maple Ave., rebuilding warehouse, along tracks of Maple Lawn and Denton R.R., damaged by fire. To exceed $100,000, **Maturity indefinite.**

Tex., San Antonio—CREAMERY—Mistletoe Creameries, c/o G. W. Maggard, mgr., 219 Austin St., completed plans and soon takes bids 2½ story, rein.-con., brick, Jones St. and Bway. $60,000. A. B. and R. M. Ayres, Smith-Young Tower, archts. W. E. Simpson Co., Milam Bldg., engrs. Noted May 12.

Va., Charlottesville — SILK MILL — Wm. J. Schoop, Inc., 512 7th Ave., New York, altering and expanding silk mill. To exceed $40,000.

Wis., Kaukauna—INDUSTRIAL — Kaukauna Quarry Co., rebuilding plant, damaged by fire. $40,000. **Maturity indefinite.**

Wis., Kaukauna—PAPER PULP MANUFACTURING—Neisen Pulp Co., rebuilding 2 pulp paper manufacturing plants, destroyed by fire. $40,000.

B. C., Vancouver—GARAGE—Spencers Ltd., Hastings and Richards Sts., ramp garage, Cordova and Richards Sts. $100,000. W. F. Gardiner, 1301 Vancouver Blk., archt.

Man., St. Boniface—BRIDGE PLANT—Winnipeg Bridge Co. Ltd., N. A. Cain, mgr., bridge plant. $50,000.

Ont., Copper Cliff—PLANT—Canadian Industries Ltd., 1050 Beaver Hall Hill, Montreal, Que., steel, brick, concrete plant to recover sodium and aluminum sulphate from mining slag. $50,000 or more. Private plans.

Ont., Milton—PLANT, SAW MILL, etc.—Milton Wood Products Ltd., A. H. Cropp, mgr., plant, incl. saw mill and shingle factory.

Ont., Pembroke — GRIST MILL — Pembroke Milling Co. Ltd., grist mill. $40,000.

Que., Montreal East—REFINERY—La Salle Petroleum Refining Ltd., Montreal, refinery. $1,500,000.

Que., Montreal East—REFINERY—Shell Co. of Canada, 276 St. James St. W., Montreal, refinery. $2,000,000.

BIDS ASKED

Colo., Pueblo — MILL — See "Contracts Awarded."

N. J., Linden—FACTORY—H. B. Brady, Inc., archts., 333 North Broad St., Elizabeth, taking bids 1 story, basement, 50 x 120 ft., brick, steel, for W. J. Bush & Co., Stiles St., $40,000.

N. Y., Brooklyn—STORAGE, etc.—G. Sorrentino, 115 Navy St., taking bids on general contract 2 story, basement, storage, garage, Navy and Johnson Sts. D. Salvati, 369 Fulton St., archt.

N. Y., Kew Gardens—STORAGE—See "Contracts Awarded."

O., Bowling Green—POWER PLANT—June 17, by State Dpt. P. Wks., T. S. Brindle, Columbus, power house addition, equipment, incl. water softener, new stack, etc., at State College.

O., Cleveland—FACTORY—Wm. A. Howe Co., E. W. Reutner, pres., 2630 Payne Ave., taking bids 2 story, brick, steel, East 27th St. near Payne Ave. $40,000. J. Boenisch, 1900 Euclid Ave., archt. Noted Apr. 14.

Wis., Combined Locks—FACTORY—Combined Locks Paper Co., c/o W. K. Kolb, constr. engr., taking bids 1 story, basement, 60 x 180 ft. and 48 x 72 ft. brick, steel paper mill unit, consisting storage warehouse, 1st process building, 2nd processing building, containing concrete tank. Private plans.

Ont., Niagara Falls—PLANT—June 13, by Kimbereley Clark Co., Neenah, Wis., 2 story 115 x 179 ft., brick, structural steel, Victoria Ave., for Kotex Co. of Canada Ltd., 554 Queen St. Noted Apr. 21.

CONTRACTS AWARDED

Colo., Pueblo—MILL—Colorado Fuel & Iron, rebuilding rail mill at Minnequa Steel Plant, day labor. $100,000. Work started.

Ia., Dubuque—FACTORY—Corn Belt Packing Co., T. J. Riedel, pres., remodeling factory, Jackson and 30th Sts., to A. Basten, 899 Rush St.; brick work, to F. C. Burdt, 2242 Prince St. Farmers Co-operative Produce Co., H. Christiansen, mgr., 1568 Iowa St., lessee.

Ia., Dubuque—ICE PLANT—Fisher & Co., 300 Iowa St., changing artificial ice making plant from d.c. to a.c. and substitution of electrical energy from Interstate Power Co., owner builds; switchboard and motor contracts awarded to Ideal Electric & Mfg. Co., Mansfield, O., wiring, to W. Figge, Dubuque; 2 ice machines, to Vilter Co., 935 Clinton St., Milwaukee, Wis. Est. $150,000-$300,000.

Mass., Amesbury — BOILER HOUSE — Ideal Soft Water Laundry, 1 story, brick, steel boiler house unit, concrete found., High St., to E. W. and P. B. Currier, 7 Sanborn Terrace. Est. $40,000.

Mass., Quincy—GARAGE, etc.—Standard Oil Co. of New York, 31 St. James Ave., Boston, brick, rein.-con. garage, docks, tanks, office building, between Town River and Washington St., to Coleman Bros., Inc., 245 State St., Boston. Est. $1,000,000. Noted Mar. 31.

N. J., Newark—PLATINUM PLANT—Baker & Co., 54 Austin St., general contract 1 story, basement, brick, steel, 116 Murray St., to Douglas & Hueber Co., Griffith Bldg. Est. $40,000.

N. J., Newark—COLD STORAGE PLANT—A. Fruh & Son, 810 Frelinghuysen Ave., general contract altering 1 story, brick, steel, Frelinghuysen Ave., to O. Joroff, 34 Prospect St., East Orange. Est. $40,000.

N. J., Newark—SERVICE STATION—Standard Oil Co. of New Jersey, 26 Bway., New York, general contract 1 story, basement, 90 x 100 ft., brick, steel, auto service station, Elizabeth Ave. and Runyon St., to Salmond Schrimshaw Co., 526 Elm St., Arlington. Est. $40,000. Noted Apr. 28.

N. Y., Kew Gardens—STORAGE—Litz Roy Development Co., 521 5th Ave., New York, 2 story, storage, store, apartment, Lefferts and Austin Sts., separate contracts. To exceed $60,000. Slee & Bryson, 16 Court St., archts. Noted May 26.

N. Y., New York — GARAGE — C. H. C. Beakes Estates, c/o Beakes Dairy Co., 11th Ave. and 46th St., altering stables and warehoue into service garage, 12th St. and Stuyvesant Alley. $40,000. Private plans.

N. Y., New York—STORAGE—Eighth Avenue and 125th Street Corp., S. Deractor, pres., 12 East 41st St., 107 x 150 ft. storage, 2317 8th Ave., to McAndrew Constr. Co., Inc., 12 East 41st St. Est. $120,000. Noted May 19.

N. Y., New York—SERVICE GARAGE—Edlar Realty Corp., R. Calder, pres., 202 West 76th St., bids in October, general contract 1 story, brick, concrete, Intervale Ave. and 169th St. M. T. Ketz, 51 Chambers St., archt.

N. Y., New York—STORAGE—Jodur Corp., J. Durst, pres., 358 5th Ave., altering 12 and 14 story, storage, showrooms, store, 358 5th Ave., to Marc Eidlitz, 100 East 42nd St. Est. $75,000. Noted May 19.

N. Y., New York—STORAGE—C. M. O'Connor, 2865 University Ave., 2 story storage, plumbing supplies, etc., Riverdale Ave. and 236th St., to J. J. Kennedy, Yonkers, or c/o owner. Noted May 26.

N. Y. New York—BAKERY—A. Shulman, 305 Bway, 2 story, 100 x 100 ft. bakery, to Baroncelli & Co., 2517 Radcliffe Ave. Est. $60,000. Noted May 26.

N. Y., Pelham — WAREHOUSE — Colonial Beacon Oil Co., 30 Beacham St., Everett, 2 story, 65 x 150 ft. warehouse, to C. O. Olsson, 515 Massachusetts Ave., Cambridge, Mass. Est. $40,000.

Pa., Phila.—STORAGE, etc., National Casket Co., 2043 Arch St., storage, showroom and office building, to Turner Constr. Co., Architects Bldg. Est. $100,000. Noted June 2.

Tenn., Lexington—SHIRT FACTORY—City, c/o W. H. Holland, mayor, 1 story, 125 x 240 ft., brick, concrete, steel mill construction, to I. M. Jaynes, Jackson, $14,218 alternate add $1,046; plumbing and heating, to Merriman & Wilson, Union City, $967 and $2,943 respectively; sprinklers, to Rockwood Sprinkler Co., Memphis, $2,820. Salant & Salant, Inc., 476-482 Knickerbocker Ave., Brooklyn, N. Y., lessee. Noted May 12.

Tex., Texarkana — BAKERY — Butter Nut Bread Co., 1 story, 85 x 140 ft., brick, concrete steel, to Hardy Constr. Co., Texarkana, $11,345. Est. $40,000. Equipment contracts to be let later. Noted May 14, under "Arkansas."

Que., Montreal—MARKET—City Executive, constructing St. Jean Baptiste Market, St. Lawrence St., to J. R. Loyer, 7446 St. Denis St. $94,872.

See proposal advertising on page 50

CONSTRUCTION NEWS

SECTION OF ENGINEERING NEWS-RECORD—JUNE 16, 1932

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WATERWORKS

PROPOSED WORK

Calif., Santa Clara — Municipality, water tanks, incl. more than 100 tons steel.

Kan., Chetopa—City, preliminary plans water purification plant. F. E. Denlin, Wichita, engr.

Kan., Galva—City, waterworks, incl. well, pump, mains, hydrants, valves, tanks and tower. $15,000. F. E. Denlin, Wichita, engr.

Neb., Omaha—Metropolitan Utilities Co., 18th and Harney Sts., cover over Walnut Hill Reservoir. $200,000. J. Detweiler, supt.

N. Y., New York—Dpt. Hospitals, Municipal Bldg., soon takes bids 8,000 gal. and 12,000 gal. tanks, elevator storehouse, steel supports and walls, Welfare Island.

BIDS ASKED

Conn., Rocky Hill—June 20, by Blair & Marchant, engrs., 100 Crown St., New Haven, 10,000 ft. 4- to 10-in. c.i. pipe lines, incl. valves, fittings, hydrants, pumping station, valve pit, elevated tank foundation and tank, pumping equipment, for State. To exceed $15,000.

Md., Baltimore—June 22, by Bd. Awards, furnishing, installing 36 in. middle service watermain in Clifton Park. L. Small, water engr.

Md., Laurel—June 20, by District Comrs., District Bldg., Wash., D. C., furnishing, installing water supply system at District Training School, near here.

N. Y., Hudson—June 23, by Superintendent Standards & Purchase, State Capitol, Albany, waterlines and sewers at New York State Training School for Girls. Noted May 26.

Pa., Bedford—July 1 at office C. C. Lee, secy. Water Comn., earth dam, spillway, foundation for pipe line through dam breast, and foundation for valve house on Pigeon Run, 2 mi. west of here. Noted May 26.

S. D., Sioux Falls—See "Contracts Awarded."

BIDS RECEIVED

Calif., San Francisco — Public Utilities Comn., June 6, constructing Coast Range Tunnel, 28.6 mi. long, Sects. A, B and C, in connection with Hetch Hetchy Water Project, from City's Utility Department, San Francisco, $5,257,665. Noted May 19.

CONTRACTS AWARDED

Fla., Tallahassee — Municipality, elevated water tank, incl. 150 tons steel, to Chicago Bridge & Iron Wks., 37 West Van Buren St., Chicago, Ill.

Neb., Omaha — Metropolitan Utilities, 18th and Harney Sts., broad weirs at filter plant. $40,000. Owner builds. J. Detweiler, supt.

N. Y., Ithaca—Commissioner Education, Education Bldg., Albany, water lines and sewers at Home Economics Building, New York State College of Agriculture, Cornell University, to P. Vellano, 1204 Albany St., Schenectady, $18,772. Noted May 26.

N. Y., Middletown—Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, water lines and sewers, Middletown State Hospital, to Sareno Contg. Co., 1959 Colden Ave., New York, $13,616. Noted May 26.

N. Y., Mount Vernon—Dpt. Water Supply, relaying 8 in. mains. $40,000. Pipe to be advertised, work by city.

O., Columbus—F. L. Donnally, clk. Franklin Co. Comn., 6,754 ft. 6 in. and 2,460 ft. 8 in. c.i. water lines in Sewer Dist. Mifflin 2, Contr. 159, to Canini Constr. Co., 297 Fletcher St., $8,517. Noted May 26.

Pa., Phila.—Bureau of Water, Dpt. P. Wks., City Hall, furnishing, laying 48 x ½ in. steel water pipe, various streets, Contr. 1038, to Mazzola & Marano, Inc., 739 South 7th St., $24,965; furnishing, delivering c.i. sleeves at Belmont Pumps, Contr. 1039, and furnishing, delivering c.i. bell and spigot water pipe and special castings, Contr. 1043, to United States Pipe & Fdry. Co., Morris Bldg., $256 and $2,185 respectively; furnishing, delivering Standard Bureau of Water, valve boxes, Contr. 1040, to Atlas Paving Co., 317 South 6th St., $1,450; valves, Contr. 1041, to Chapman Valve Mfg. Co., 1019 Arch St., $1,416—low pressure fire hydrants, to M. L. Bayard & Co., Inc., 20th St. and Indiana Ave., $8,200. Grand total $38,472. Noted May 26 under "Materials."

Tenn., Memphis — Bd. Water Comrs., J. Sheahan, genl. supt. steam piping and steam equipment in building Sheahan Pumping Station, to F. V. Ragsdale Co., Dermon Bldg., $108,000; 2 gravel wells, to Layne & Bowler, Inc., Chelsea Ave., $30,000. Noted Apr. 28.

Wis., Milwaukee—Dpt. P. Wks., City Hall, watermains in West State St. and West North Ave., to Wenzel & Henoch Constr. Co., 5061 West State St., $7,669 and $6,852 respectively; West Courtland Ave., to Klump & Johnson, St. Francis, $4,374; sewers in North 40th St. and West Fiebrantz Ave., to Werner Co., 2019 West Hi-Mount Blvd., $702 and $1,947 respectively; North 65th St., to W. J. Lazynski, Jr., 2809 North Humboldt Ave., $2,535. Grand total $24,079.

SEWERS

PROPOSED WORK

Conn., Milford — Town retained Metcalf & Eddy, engrs., 1300 Statler Bldg., Boston, Mass., and V. B. Clark, consult. engr., Capitol Bldg., Ansonia, to report on general layout about Aug. 1, for sanitary sewer and disposal plant.

Ind., Kendallville—City Council adopts resolution sewage disposal system. $50,000. W. DeVault, city clk. Noted Feb. 25.

Kan., Galva—City, sewerage system, disposal plant. $25,000. F. E. Denlin, Wichita, engr.

Mass., Boston—City, 11 ft. 3 in. x 10 ft. 9 in. concrete surface drain and 5 ft. 9 in. diam. circular concrete surface drain, Stellman and Firth Rds., West Roxbury, $40,000; 10, 12, and 15 in. concrete surface drains in section Allston and Parker Sts., Brighton and Roxbury Dists. $25,000 or more; 12, 15 and 18 in. sanitary sewer lines, 36 in. diam. concrete surface drain, Coleman and Hamilton Sts., Dorchester, $20,000-$25,000. J. A. Rourke, City Hall, comr. P. Wks.

Mo., St. Louis—Bd. P. Serv., City Hall, preliminary plans constructing Skinker Rd. Public Sewer, $6,500; Humboldt Ave. Pub. Sewer, $115,000; Manchester-Mitchell Pub. Sewer, $20,000; Sect. A, Down-Town Relief Sewer, incl. reconstructing Poplar Street Sewer, $165,000; additional shaft on Mill Creek Joint District Sewer and removing deposits in above sewer between Theresa and Duncan Aves. $35,000. W. W. Horner, city engr.

BIDS ASKED

Conn., Waterford—June 24, by State, Water Comn., State House, Hartford, sewage disposal system. $35,000. J. F. Lynch, 578 Campbell Ave., West Haven, engr.

Md., Baltimore—June 22, by Bd. Awards, sanitary sewers and storm drains in miscellaneous sewer districts, Storm Water Contr. 177, incl. 4,900 lin.ft. 24- to 48-in. rein.-con. drain; 3,695 lin.ft. 18- to 21-in. vitr. drain; 2,260 lin.ft. 15 in. vitr. sewer; 5,600 lin.ft. 4 and 6 in. underdrain. G. E. Finck, Municipal Bldg., sewerage engr.

N. Y., Long Island City—June 21, by G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., sewers in Foothill Terrace, 45th Dr., 69th and 212th Pls., Queens, Farmers, Northern and Merrick Blvd., 46th, Rocky Hill, 114th, 115th, 87th, 93rd, Dormans Rds., 62nd, Dongan, 46th, 44th, Braddock, 91st, 90th, 89th, 88th, 122nd, Liberty, Hillside and Hollis Aves., 209th, 210th, Montauk, Nellis, Milburn, Grayson, Benton, Lucas, 191st, 165th, 166th, 184th, Somerset, Eton, 157th, 196th, 198th, 220th, Garret and Mexico Sts.

N. Y., New York—June 22, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in East 222nd St. and Fish Ave.

Tex., Beaumont—See "Contracts Awarded."

Tex., Tyler—June 24, by City, c/o L. H. Powell, city mgr., addition to sewage disposal plant. $85,000. City Engineer, Tyler, engr. Noted May 26.

CONTRACTS AWARDED

Calif., San Francisco—Rein.-con. sewer in section East Fillmore St., to Macdonald & Kahn, Financial Center Bldg., $69,858.

Conn., Wethersfield—Metropolitan Dist. Comn., Bd. Contr. & Supply Municipal Bldg., Hartford, 8 and 10 in. sanitary sewers in Landberg Dr., Byrd and Stillwold Rds., to Wethersfield Concrete Constr. Co., 31 Lorrain Rd. Noted May 17.

Ind., Indianapolis — City Sanitary Bd., for Broad-Ripple-Irvington Sewer, to Columbia Constr. Co., 2108 Columbia Ave., $409,000. Est. $460,000.

N. Y., St. George—J. A. Lynch, pres. Richmond Boro, Boro Hall, sewer in Seneca Ave., to Trifoglio Constr. Co., 390 Carey Ave., Port Richmond, $3,992. Noted Apr. 28.

O., Cleveland—City, for Westerly Sewage Treatment Works, incl. 35 x 35 ft. detritor building, oil and grease catches, blower building, sludge digestor tank, 34 x 37 ft. waste destructor, Contr. 74, building, 26 x 30 ft. filter building, sheet steel piling, wood piling, macadam roadway, fence and industrial trackage, to Hunkin-Conkey Constr. Co., 1740 East 12th St., $172,951. Noted May 12.

O., Cleveland—For 3,177 ft. 5 ft. Circular .C brick tile sewer in Union Ave., from East 116th to East 131st St., to Middle West Constr. Co., Leader Bldg., $52,901. Noted Apr. 21.

Tex., Beaumont—City, 2,300 ft. 15- to 21-in. storm sewers and 12,000 ft. 6 in. sanitary sewers, day labor, under supervision R. C. Black, city engr.

Wis., Milwaukee—Sewers in West North Ave. and West Vliet St., to Milwaukee Sewer & Drainage Co., 2551 North Humboldt Ave., $7,534 and $17,723 respectively.

Wis., Milwaukee—See "Waterworks."

Ont., Aurora—M. L. Andrews, town clk., general contract sewage disposal plant, to W. E. Taylor, 22 Falcon St., Toronto; sluice gates, to W. J. Westaway Co., 38 Main St. W., Hamilton; air compressor, to B. F. Sturtevant Co., Middleton St., Galt; clarifier equipment and pump, to Dort Co., Inc., 330 Bay St., Toronto. Est. $60,000.

Ont., Ottawa—Bd. Control, outfall pipe work in Ottawa River for Rideau Canal Sewer, to McDougall Bros., $45,000.

BRIDGES

PROPOSED WORK

Calif., San Bernardino—City authorized by State Railroad Comn., to reconstruct viaduct over Santa Fe Ry. tracks, Mount Vernon Ave., ordering railroad company to pay $75,000 of cost. Total $226,000.

Massachusetts — State, State House, Metropolitan Dist. Comn., Boston, rein.-con. bridge over Saugus River between Revere and Lynn. Governor Ely signed bill providing for $1,315,000 for construction. Noted June 9.

Mo., Kansas City — Park Bd., preliminary plans 400 ft. rein.-con. bridge on extension of Blue River Rd., in Swope Park. $75,000. G. E. McIntyre, 800 Finance Bldg., engr.

New York—Interborough Bridge Co., c/o A. C. Pouch, 17 State St., New York, plans bridge over Narrows, from Brooklyn to Staten Island. $40,000,000. Bill authorizing construction pending in Congress. Robinson & Steinman, 117 Liberty St., New York, consult. engrs. T. E. Blake, 18 East 48th St., New York, archt. Noted May 24, 1928.

N. Y., Buffalo—Bd. Supervs. Erie Co. repairing and replacing 25 bridges. $200,000. G. C. Diehl, supt. hys.

N. Y., New York—Dpt. Plant & Structures, Municipal Bldg., bridge to have 2 fixed spans, horizontal clearance 151 ft. between center pier and abutments over Bronx Kills, connecting Bronx Boro with Randalls Island. Fixed spans constructed so that they may be changed to vertical lift spans if required.

Ohio—O. W. Merrell, dir. hys., Columbus, cancelled bids received June 3, two 40 ft. span, concrete beam bridge, approaches over Rocky Ford Creek, Sect. F-2 in Findlay Bowling Green Rd., Wood Co., $26,948. Noted May 26.

Rhode Island and Connecticut — States of Rhode Island, Bd. P. Roads, Providence, and Connecticut, Hy. Dpt., Hartford, bids this month, 3 span steel, rein.-con. bridge over Pawcatuck River. $75,000. Noted May 5.

Tex., Beaumont—Jefferson Co. and State, cancelled bids concrete, treated timber, steel swing span bridge over Intracoastal Canal on Hy. 87. G. E. Bracher, Beaumont, resident engr. Noted May 5.

BIDS ASKED

Calif., Eureka—June 22, by Humboldt Co., cable suspension bridge over Mattole River, near Petrolia, $10,000; bridge over South Fork of Eel River at Redway, $20,000. F. E. Kelly, Box 666, engr.

Calif., San Bernardino—June 27, by Supervs. San Bernardino Co., 322 ft. concrete, steel

See proposal advertising on page 51

Bridges (Continued)

bridge, 30 ft. roadway, over Santa Ana River, Orange Ave. Noted June 2.

Del., Farnhurst—State Hy. Dpt., Dover, bids about July 15, concrete, steel bridge over Pennsylvania R.R. $60,000. A. G. Livington, State Hy. Dpt., Dover, bridge engr.

N. Y., Harrison—June 21, by J. Downer, engr. Westchester Co., County Bldg., White Plains, bridge over Mamaroneck River, on Mamaroneck Ave., County Rd. 8A, Harrison and Mamaroneck, Co. engr.; adv. E.N.-R. June 16.

Pa., Pittsburgh—See "Streets and Roads."

Virginia—See "Streets and Roads."

Wash., Seattle—June 27, by Comrs. King Co., 450 ft. bridge over Green River. $100,000. T. D. Hunt, Seattle, co. engr.

Wis., Milwaukee—June 22, by Dpt. P. Wks., 35th Street Viaduct. R. E. Stoelting, comr. Noted Apr. 14.

CONTRACTS AWARDED

Calif., Stockton — E. Graham, clk. San Joaquin Co., Garwood Ferry Bridge, rein.-con., steel, incl. 160 piles, 65 ft. long, 1,100 cu.yd. excav., 13,200 lin.ft. protection piling, 90,000 bm.ft. timber protection work, etc., to E. H. Riley, 1st Natl. Bank Bldg. $73,910.

Indiana—See "Streets and Roads."

Indiana — State Hy. Comn., Indianapolis, 1 span 96 ft. steel and 1 span 30 ft. rein.-con. arch bridge, Rd. 35, Contr. 462, Brown Co., to Hancock & Keiffer, Brownstown, $13,978. Est. $19,180. Noted Apr. 21.

Ind., Indianapolis — State Hy. Comn., Indianapolis, Meridian Street Bridge over White River, to Cunningham & Johnson Constr. Co., Indianapolis, $162,241. Noted Jan. 28.

Maryland — Bd. Awards, Baltimore, Georges Creek Bridge and Tracey's Store Run Culvert, to Forbes-Murphy Contg. Co., 326 St. Paul St., Baltimore, $10,661. Noted May 12.

Michigan—A. L. Burridge, div. engr., Cadillac, FBr. 1 of 6-12-21C-4, 108 ft. 9 in. steel truss span superstructure, welded battledeck steel floor, Arenac Co., for State Hy. Comn., Lansing, to J. G. Ferguson, 1319 Pine St., Port Huron, $10,957. Noted May 12.

Michigan—H. G. Oakes, div. engr. at office Clinton Co. Road Comn., St. John, R.B. 1 of 19-5-29, two 55 ft. span, steel deck girder superstructure, substructure of 2 sheet pile abutments, Clinton Co., for State Hy. Comn., Lansing, Contr. 1, to Jarvis Eng. Wks., Lansing, $8,865; Contr. 2, to F. C. Atlewed, Dexter, $4,881. Noted May 12.

Neb., Dakota City—Dakota Co., W. E. Miller, clk., constructing steel bridges during 1932, to Central Bridge & Constr. Co., Wahoo; repairing existing bridges, to B. O. Dorn, South Sioux City.

N. Y., Buffalo—Erie Co., Ellicott Sq., 275 ft. steel trestle bridge over Cedar Creek, Jennings Rd., to A. K. Van Ingen, Lake St., Hamburg, $26,280. Noted May 19.

Okla., Ames—Major Co., steel, concrete bridge over Cimarron River, to R. S. James Eng. Co., 519½ West Main St., Oklahoma City, $29,000.

Rhode Island—State Bd. P. Roads, Providence, widening Pawtucket Bridge, Cranston-Warwick, to John J. McHale & Sons, 84 Ferris St., Pawtucket, $31,262—substructure for Miantonomi Bridge, Richmond, to Aberthaw Constr. Co., 80 Federal St., Boston, Mass., $20,516—superstructure for same, to American Bridge Co., 1413 Statler Bldg., Boston, Mass., $44,636. Grand total $96,414. This corrects report in June 2 issue.

Washington—Gilpin Constr. Co., contractors, Worcester St., Portland, sublet contract bridge over Lewis River, near Ariel, for Comrs. Cowlitz Co. (Kelso) and Clark (Vancouver), to Isaacson Iron Wks., 2917 East Marginal Way, Seattle, $36,124. Noted May 12 under "Contracts Awarded."

STREETS AND ROADS

BIDS ASKED

California — June 22, by State Hy. Comn., Sacramento, grading, oil treated crushed gravel or stone surface treating 16.5 mi. road between Holloran Summit and Mountain Pass, San Bernardino Co.; bituminous treated crushed gravel or stone surfacing 4.8 mi. road between Amador City and Martell, Amador Co. C. H. Purcell, Sacramento, state hy. engr.

D. C., Wash.—June 20, by District Comrs., District Bldg., 60,000 sq.yd. concrete alley paving and 24,000 sq.yd. concrete sidewalks.

Idaho—June 21, by G. E. McKelvey, comr. P. Wks., Boise, crushed gravel surfacing in windrows 13,500 cu.yd. North and South Hy. between Bonners Ferry and Naples, Boundary Co.

Ill., Chicago—June 21, by Dpt. P. Wks., City Hall, bituminous macadam paving 4,535 sq.yd. road adjoining bulwark of Rainbow beach, along Lake Michigan from 76th to 79th Sts.

Iowa—June 21, by State Hy. Comn., Ames, grading, paving 0.25 mi. Project F-149 U. S. Rd. 161, Keokuk, Lee Co.—12.051 mi. F.A.P. 267-C, Primary Rd., 15, Wright Co.—rounding and widening corners Project F-62, U. S. 20, east of Waterloo, Black Hawk Co.—grading 8.301 mi. F.A.P. 358, Primary Rd. 10, Delaware and Dubuque Counties—graveling 5.25 mi. Primary Rd. 156, P-753, Marion Co.—14.2 mi. Primary Rd. 32, P-627, Ida, Monona and Woodbury Counties—14.3 mi. Primary Rd. 5, P-610, Cherokee Co.—6.31 mi. Primary Rd. 33, P-724, Osceola Co.—rip rap on Primary Rd. 187, P-744, Buchanan Co.—bridges, culverts on Rd. 14, FAB-63, Lucas Co.— on Rd. 10, Delaware and Dubuque Counties—on Rd. 15, FAB-267, Rd. 10, FAB-29, Wright Co.—Primary Rd., B-806, Appanoose and Wayne Counties—on U. S. Rd. 169, X-584, Boone Co. C. R. Jones, aud.

Ia., Spencer—June 21, by E. H. Penning, city clk., City Hall, improving various streets, incl. 45,000 sq.yd. paving, 5,417 ft. combined curb and gutter, 400 cu.yd. extra concrete if resurfacing is selected against new paving. H. R. Green Co., 208-10 Bever Bldg., Cedar Rapids, engr.

Kansas—June 24, by State Hy. Comn., Hill City, sand graveling 16 mi. Thomas Co.—42.129 mi. Phillips Co.—39.03 mi. Norton Co.—10.02 mi. Ellis Co.—32.4 mi. Smith Co.—5.2 mi. Osborne Co.—26.8 mi. Russell Co.—7.129 mi. Phillips Co.; bituminous material surfacing 14.92 mi. Sheridan Co—19.422 mi. Graham Co. W. V. Buck, Topeka, state hy. engr.

Maryland—June 21, by State Roads Comn., G. C. Uhl, chn., Baltimore, concrete shoulders 3.83 mi. Contr. W-110-611, Washington Co.—4.39 mi. Contr. B-184-411 Baltimore Co.—macadam paving 0.76 mi. Contr. B-252-42, Baltimore Co.

Md., Baltimore—June 22, by Bd. Awards, vitr. brick paving 6,000 sq.yd. streets listed in Contr. 624; granite block paving 5,500 sq.yd. streets listed in Contr. 625. G. Cobb, Municipal Bldg., hys. engr.

Michigan—June 21, by J. T. Sharpensteen, div. engr., Escanaba, shaping, concrete paving 12.684 mi. F017-33C-3, Chippewa Co., for State Hy. Comn., Lansing.

Michigan—June 23, by H. W. Hagaman, div. engr., 205 Mercer Bldg., Port Huron, shaping, concrete paving 12.184 mi. F044-24C-2, Lapeer Co., for State Hy. Comn., Lansing.

Mo., Clayton—June 22, by St. Louis Co., Court House, grading, draining, concrete paving Adams Ave., from Geyer to Ballas Rds. R. Jablonsky, Court House, co. engr.

New Hampshire—June 23, by State Hy. Dpt., Concord, paving with **(a)** 6 in. one course rein.-con. on 8 in. gravel base **(b)** 6 in. rein.-con. on 3 in. gravel **(c)** 3 in. bituminous macadam on 4 in. broken stone base course **(d)** 6 in. one course rein.-con. on 5 in. gravel base course **(e)** 3 in. bituminous macadam on 3 in. broken stone base course surfacing 3.75 mi. East Side Rd., towns of Miller and Wakefield, Strafford Co. **(a)** $111,165—0.85 mi. South Side Rd., town of Merrimack, Hillsboro Co. **(b)** $29,000 **(c)** $25,000—3.04 mi. East Side Rd., town of Ossipee, Carroll Co. **(d)** $130,000 **(e)** $125,000.

New Jersey—June 27, by State Hy. Comn., Trenton, grading, rein.-con. paving 25,496 sq.yd. Route 29, Sect. 1-B, Hilldale Pl. to Elizabeth River, Union Co., and 22,530 sq.yd. Route S-28, Sect. 1-A, Middlesex Co. A. L. Grover, ch. clk.; adv. E.N.-R. June 16.

N. J., Bordentown—June 21, by City Comrs., City Hall, concrete paving 8,298 sq.yd. Farnsworth Ave. H. B. Smith, Mount Holly, engr.

New York — Westchester Co. Park Comn., White Plains, bids about Aug. 4, improving connecting link in Greenburgh near Glenville between Benedict Ave. and Tarrytown-White Plains Rd., $35,000; surfacing Bedford and Ossining Rd., Bridges in Pleasantville, $92,500. J. Downer, White Plains, co. engr.

N. Y., Brooklyn—June 22, by H. Hesterberg, pres. Brooklyn Boro, Boro Hall, grading, granite on concrete paving Front St. and Morgan Ave. —grading, curbing, flagging, Avenue U, Avenue H, and Coyle St.—grading, asphalt on 6 in. concrete paving Avenue N, Lincoln and Sullivan Pl., Bedford, Blake, Pennsylvania and 16th Ave., Chauncey, East 12th, East 59th, Malta, West 6th, West 28th, 3rd, East 28th, East 53rd, McKibben, North 4th, North 11th, Steuben, 58th and 59th Sts.

N. Y., Mount Vernon—June 21, by J. Downer, Westchester Co., County Office Bldg., White Plains, curbing, sidewalks, drainage structures 0.52 mi. South 5th Ave. Noted May 12.

N. Y. New York—June 22, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sheet asphalt on concrete paving Tenney Pl., Hughes, Arnow and Arlington Aves., grading curbing, sidewalks on Wallace Ave. and Light Sts.

N. Y., St. George—June 22, by J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous macadam paving Hendricks Ave. from Jersey St. to Westervelt Ave.

Ohio—June 24, by O. W. Merrell, dir. Hys., Columbus, concrete paving 0.627 mi. Sect. "Bucyrus," Columbus-Sandusky Rd., Crawford Co. $26,189—0.601 mi. Sect. "Lima," Lima-Sandusky Rd., Allen Co. $29,845—6.46 mi. Sects. "I," "J" and "K," Salem-Alliance Rd., Columbiana Co., $149,745 — 0.557 mi. Sect. "Willard," Willard-Eastern Rd., Huron Co. $18,776—3.832 mi. Sect. "G" Bellefontaine-Wapakoneta Rd., Logan Co. $58,464—5.695 mi. Sect. "H" Hamilton-Cleves Rd., Hamilton Co. $220,879 — 3.819 mi. Sect. "F" Cincinnati-Chillicothe Rd., Clermont Co. $107,397—rein.-con. paving 13.011 mi. Sect. "E" and others, Lima-Sandusky Rd., Hancock Co. $251,085—4.685 mi. Sects. "H-2" and "H-3" Columbus-Washington C.H. Rd., Franklin Co. $92,922—bituminous macadam on concrete paving 2.27 mi. Sect. "B" Bucyrus-Cresline Rd., Crawford Co. $42,003—bituminous macadam paving 7.981 mi. Sects. "C," "D," "E" and "F-1," Mt. Gilead-Sunbury Rd., Morrow Co. $88,550 — 4.767 mi. Sects. "M" and "H" Ottawa-Van Wert Rd., Putnam Co. $53,414—repairing concrete base and curb, and bituminous macadam resurfacing 0.436 mi. Sect. "Washington St.," Sandusky-Clyde Rd., Erie Co. $16,781—grading, draining, concrete widening, bituminous macadam resurfacing 5.663 mi. Sect. "G" Marion-Kenton Rd., Marion Co. $81,529 — widening bituminous macadam resurfacing 1.264 mi. Sect. "X" Chagrin Falls-Greenville Rd., Geauga Co. $17,182—bituminous macadam paving 3.76 mi. Sect. "K" Milford-Hillsboro Rd., Highland Co. $61,472—3.455 mi. Sect. "H" and others same road, $93,006—brick paving, except brick 3.709 mi. Sects. "L" and "K" Dayton-Indianapolis Rd., Montgomery Co. $61,033; furnishing and delivering brick for same $21,843—brick paving 0.473 mi. Sect. "Dover," Wooster-Canal Dover Rd., Tuscawaras Co. $33,310—0.41 mi. Sect. "Circleville East," Cincinnati-Zanesville Rd., Pickaway Co. $33,590—0.375 mi. Sect. "M" Lima-Sandusky Rd., Allen Co. $10,866—bituminous macadam or slag paving 5.048 mi. Sects. "E2," "C" and "Cortland," Warren-Meadville Rd., Trumbull Co. $86,597 — grading, draining 3.287 mi. Sects. "Lewisville" and "C" Woodsfield-Caldwell Rd., Monroe Co. $38,088—bituminous macadam or tar macadam paving 5 mi. Sect. "A" Bloomfield-New Concord Rd., Muskingum Co. $19,296—4.35 mi. Sect. "E" Wadsworth-Medina Rd., Medina Co. $34,609—9.45 mi. Sect. "G-1" and others, Ganges-Plymouth Rd., Richland Co. $34,509—7.25 mi. Sect. "Bel" and others, Ohio River Rd., Belmont Co. $39,747 — 7.78 mi. various roads, Huron and Crawford Counties $32,764—4 mi. Sect. "D" Millersport-Mt. Perry Rd., Fairfield Co. $14,677—9.14 mi. various roads Greene Co. $27,470—5.43 mi. Sect. "E" Jewell-Hopedale Rd., Harrison Co., $23,299—6.4 mi. Sects. "D" and "E" Columbus-Wooster Rd., Holmes and Wayne Counties $30,930 — 12.28 mi. various roads, Holmes and Wayne Counties $26,034—11.45 mi. Sect. "H" and others, Portage Co. $44,280.

Ohio—O. W. Merrell, dir. hys., Columbus, cancelled bids received June 3, grading, draining, concrete paving 6.071 mi. hy. Wood Co., $142,249—8.859 mi. Clark Co., $203,528—1.816 mi. Erie Co., $44,972—3.832 mi. Logan Co., $58,464—0.982 mi. Ottawa Co., $21,833. Noted May 26.

O., Cleveland—June 21, by Bd. Comrs. Cuyahoga Co., grading, curbing, sidewalks, vitr. brick paving 20,640 sq.yd. sheet asphalt paving 15,960 sq.yd., and bitulithic concrete paving 4,680 sq.yd. Pearl Rd. 3 from Big Creek to West 35th St., asphalt $110,475, brick, $117,000. F. Williams, Court House, engr.

Oklahoma—June 21, by State Hy. Dpt., Oklahoma City, grading, drainage 7.6 mi. hy. Carter Co. $25,000—4.3 mi. Pawnee Co. $25,000—6.7 mi. Creek Co. $25,000—6.6 mi. Harper Co. $25,000, all foregoing 32 ft. wide. C. L. Wilson, Oklahoma City, engr.

Pennsylvania—June 21, by Dpt. P. Wks., F. H. Craven, dir., City Hall Annex, Phila., Bureau of Hys., laying vitr. clay pipe, bituminous material (dust laying oil), asphalt plank.

Pa., Canonsburg—June 20, by W. C. Black, boro clk., 11 West Pike St., subgrading 2,500 sq.yd., 8 in. one course rein.-con. paving 2,500 sq.yd. College St. H. M. Day, Boro Bldg., engr.

Pa., Pittsburgh—June 21, by R. G. Woodside, Court House, controller Allegheny Co., paving and curbing approaches, South 10th St., $154,000; anchorage lights, $1,000; doors, nameplates, etc., for West End-North Side Bridge, $4,500; curbing, concrete sidewalk at pylons, George Westinghouse Bridge, $600; guard fence, Chartiers Creek Channel Change, $1,050; concrete paving Elwyn Rd., Contr. 2, $4,800; storm drainage State Rural Route 02147, $3,000. V. R. Covell, County Office Bldg., engr.

Tennessee—June 24, by H. J. Baker, hy. comr., Nashville, paving 4.5 mi. Goodlettsville-Ridgetop Rd., Davidson Co.; 7.8 mi. Darden-Parsons Rd., Henderson Co., 32 ft.

Tex., Galveston—June 21, by Galveston Co., c/o J. Predecki, aud., bituminous treating 21.5 mi. shell roads, incl. League City, Kemah Rd. and street through League City, La Margue, Hitchcock Rd. and road through La Margue; San Leon, Ames, store to School House Rd. Alleshouse Rd. and road and ramps on Galveston Island.

Tex., Marshall—June 21, by City, c/o H. J. Groeser, mgr., permanent paving 13 blocks streets. $48,000. W. C. Albright, Marshall, engr.

Virginia—June 28, by Dpt. Hys., Richmond, soiling 0.6 mi. Route 10, Project F36602, Dinwiddie Co.—1.3 mi. Route 57, Project S735F, Pittsylvania Co.—graveling 22 mi. Route 10, Project F412 and 528 ADC, Scott and Washington Counties—6.3 mi. Route 110, Project F518AB1, Washington Co.—3.4 mi. Route 611, S707, Westmoreland Co.—grading, draining 12 mi. Route 529, Project S699A, Warwick Co.—macadam paving, 4 mi. Route 10, Project F562A, Roanoke Co.—2.7 mi. Route 33, Project F660GH, Abingdon Co.—8.7 mi. Route 33, Project F675E, Frederick Co.—concrete paving 0.5 mi. Route 39, Project S668E, Warwick Co. —156 ft. bridges Route 50, Project S448B1—42½ ft. bridge Project S448B2, both Caroline Co.—90 ft. bridge on Route 22, Project S4779B, Craig Co.—66 ft. bridge on Route 17, Project F637B2, Botetourt Co.

Washington—June 28, by A. J. Humes, dir. Hys., concrete paving 3.3 mi. State Rd. 3, Spokane to Whitworth, F.A.P. 94-C, and 4.6 mi. State Rd. 6, Junction State Rd. 3, to Peone Creek, F.A.P. 186-A, Spokane Co.—grading 2.4 mi. Asotin-Oregon State Line Rd., Anatone South, Sect. 3, Asotin Co.

Wash., Olympia—June 27, by Comrs. Thurston Co., concrete resurfacing 0.56 mi. Division Ave. N., 0.91 mi. Butlers Cove and 0.51 mi. South Bay Rd. $25,000. N. McKay, Olympia, co. engr.

Wash., Yakima—Yakima Co. bids about June 30, paving 2 mi. Summitview Extension. O. E. Brashears, co. engr.

Streets and Roads (Continued)

Wisconsin—June 21, by State Hy. Comn. and Hy. Coms., Dane, Sauk, Milwaukee, Waukesha and Autagamie Counties, Madison, concrete paving 81,535 sq.yd. Cashton-Reedsburg Rd., S.T. Hy. 33, F.A.P. 448-B and 448-B extended and F.A.P. 175, Reopened and extended, S.A.P. 1357, Sauk Co.—23,322 sq.yd. Butler Subway approaches and Currie Park-Butler Rd., U. S. Hy. 16, F.A.P. 349-I, Sects. 1 and 2, Milwaukee Co.—crushed rock surfacing 1,500 cu.yd. Spring Green-Northerly Rd.,S.T. Hys. 11 and 23, Sauk Co.—2,122 cu.yd. Quarry Grade Separation (approaches), Waukesha Co.—grading 4.352 mi. LaValle-Mauston Rd., S.T.H. 58, S.A.P. 1432, Sauk Co.—constructing Loddes Mill Bridge on S.T.H.60, S.A.P. 1431, Sauk Co.—Main St., Bridge, Stoughton, on U. S. Hy. 51, S.A.P. 1452, Dane Co.

Wisconsin—June 22, by State Hy. and Hy. Com., Sheboygan Co., Court House, Sheboygan, concrete paving 154,968 sq.yd. Cedar Grove-Silver Creek Rd., S.T. Hy. 144, S.A.P. 2100, Sheboygan Co.

Wisconsin—June 23, by State Hy. Comn. and Hy. Coms. of Iron and Oneida Counties, Rhinelander, concrete paving 95,038 sq.yd. Rhineland-Lake George Rd., F.A.P. 436-E, S.A.P. 7881, and Lake George-Monico Rd., F.A.P. 436 Reopened, Oneida Co.—grading 9.988 mi. Hurley-Odanah-Ashland Rd., U. S. Hy. 2, F.A.P. 452-A and 213 Reopened—constructing Saxon Grade Separation (structure only), U. S. Hy. 2, F.A.P. 452-B, Iron Co.

Wisconsin — June 24, by State Hy. Comn., Superior, grading, bridging 16.701 mi. Port Wing-Cornucopia Rd., S.T.H. 13, S.A.P. 8471, Bayfield Co.

Ontario—Dept. Hys., Toronto, taking bids resurfacing 6.2 mi. section of Hy. 29 between Carleton Pl. and Almonte. $35,000. J. Sears, Albert St., Ottawa, engr.

CONTRACTS AWARDED

California—State Hy. Comn., Sacramento, fuel oil treating 24.9 mi. earth shoulders, Los Angeles and Orange Counties, to Martin Bros. Trucking Co., 1389 Gladys Ave., Long Beach, $12,057; applying seal coat and oil on 40.3 mi. shoulders, Ventura and Los Angeles Counties, to Kemper Constr. Co. Ltd., 3701 South Overland Ave., Los Angeles, $19,713. Noted May 14.

Idaho—G. E. McKelvey, comr. P. Wks., Boise, oil processing 50.067 mi. Cassia and Minidoka Counties, to W. Hoops, Twin Falls, $29,792—24,896 mi. Jefferson and Clark Counties, to U. B. Lee, San Leandro, Calif., $17,160—crushed rock surfacing 5.563 mi. Lewis Co. and graveling 13.212 mi. Latah and Nez Perce Counties, to M. J. Kuney, Spokane, Wash., $7,568 and $18,194 respectively—gravel surfacing 10.146 mi. Clark Co., to J. C. O'Conner, Butte, Mont., $6,200. Grand total $78,914.

Idaho—State Hy. Comn., Boise, grading, graveling 43.538 mi. Old Oregon Trail between Caribou Co. Line and Wyoming State Line, Bear Lake Co., to Robinson Constr. Co., Twin Falls, $71,240. Est. $110,570.

Ill., Chicago—Bd. Local Impvts., asphalt on 8 in. concrete paving 14,550 sq.yd. Wabash Ave., Warren 55150, to White Paving Co., 1735 Fullerton Ave., at $4.40 per sq.yd., total $64,020.

Ill., Dixon—Lee Co., concrete paving 2.3 mi. State Aid Route 14, Sect. 3-1-15D, to Gund-Graham Co., Freeport, $41,906.

Ill., Galena—JoDaviess Co., concrete paving 7.3 mi. Sect. 2-1, Motor Fuel Tax, 14 ft., to F. C. Raemisch, Waunakee, $28,393. Noted May 24.

Indiana—State Hy. Comn., Indianapolis, paving 75,555 sq.yd. Spencer Co., to W. D. Vogel, 506 Inland Bank Bldg., Indianapolis, $107,338 est. $140,751; grading, structures 3.892 mi. Brown Co., to Myers & Hoke, Campbellsburg, $54,394 est. $70,782 bridge Carroll Co., to W. H. Hoffman, Lafayette, $5,887 est. $7,839. Grand total $167,619. Noted May 5.

Ia., Algona—B. E. Johnson, aud. Kossuth Co., graveling roads, incl. 168,175 cu.yd. gravel, 1,038,600 units ½ mi. overhaul and 47,200 cu.yd. pit stripipng, to Paul & Donnelly, W. B. Williams and J. Schumacher, Fort Dodge, $68,400.

Ia., Cherokee—Cherokee Co., grading 6.5 mi. roads, 30 ft., to C. W. McNamara, Sioux Falls, S..D., $20,384. Noted May 19.

Ia., Emmetsburg—Palo Alto Co., D. L. Johnson, aud., graveling 49,000 cu.yd. county trunk and local roads, to Bauck Constr. Co. & Huff, Emmetsburg, $41,070.

Ia., Ft. Madison—Lee Co., improving 9.471 mi. road, incl. 103,338 cu.yd. earth, 611 cu.yd. loose rock and 538 cu.yd. solid rock excav., 68,145 sta.yd. overhaul, to Paul Betz, Sabula, $15,000. Noted May 12.

Ia., Indianola—City Council, 6 in. rein.-con., limestone concrete resurfacing 24,400 sq.yd. streets, to Amis and Sclick, Des Moines, $40,836.

Ia., New Hampton—At office Auditor Chickasaw Co., graveling 50 mi. secondary roads, to R. Slipka, Cresco. Noted Apr. 28.

Maryland — State Roads Comn., G. C. Uhl, chn., Baltimore, concrete paving 1.33 mi. Contr. O-78-24, Queen Anne Co., to Phillips Bros., Salisbury, $16,259. Noted Apr. 14.

Maryland — State Roads Comn., G. C. Uhl, chn., Baltimore, concrete paving 1.34 mi. Contr. Ce-127-K-67-K-68, Cecil and Kent Counties, to Hanneman-Burroughs Co., Salisbury, $23,784. Noted Apr. 28.

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, gravel surfacing 2.07 mi. Contr. A-A-108-74, Anne Arundel Co., to G. & L. Contg. Co., 3509 Northern Parkway, Baltimore, $24,181. Noted May 12.

Mass., Boston—City, Dpt. P. Wks., partly concrete and asphaltic macadam paving Havre St., East Boston, Soley St., Charlestown and Kenwood St., Dorchester. $20,000 to $25,000. Work will probably be done by day labor, but may advertise for bids later. J. A. Rourke, City Hall, comr. P. Wks.

Michigan—A. L. Burridge, div. engr., Cadillac, to Detroit Asphalt Paving Co., 909 Transportation Bldg., Detroit, building-up shoulders, 20 ft. sheet asphalt on gravel surfacing 8.996 mi. F016-22C-1, $83,277; 9.567 mi. F016-10C-4, $95,399; 1.963 mi. M016-10C-5, $20,021, all foregoing in Cheboygan Co. Grand total $198,697. Noted May 12.

Minn., Robbinsdale — City, grading 1.1 mi. incl. 200,000 cu.yd. excav. for swamp fill, to W. E. Preston, 1436 Portland Ave., St. Paul, $41,000.

Minn., St. Paul — City, paving University Ave., to Feyen Constr. Co., 277 Burgess St., $61,880. Noted May 12.

Mississippi—State Hy. Comn., Jackson, c/o C. M. Williamson, dir., 155,840 cu.yd. fill to be jetted for hydraulic settlement, Meridian-Hattiesburg Rd., F.A.P. 135-Reopened, Lauderdale Co., to Moore & Roell, Jackson, $2,836; paving 12.111 mi. Tutwiler-Clarksdale Rd., F.A.P. 212-A, Coahoma Co., to Union Paving Co., 1626 Arch St., Phila., Pa., $200,738. Noted May 19.

Mo., Clayton—St. Louis Co., concrete paving 57,000 sq.yd. Clayton Rd., to W. A. Riley Constr. Co., 6221 Olive Blvd., St. Louis. Est. $135,750. Noted May 26.

Mo., Independence—Jackson Co., furnishing, applying 2,000,000 gal. road oil on various roads, to P. Patton, 1927 Woodland Ave., Kansas City, at 5.45c. per gal.

Mo., St. Louis—Bd. P. Serv., City Hall, grading, concrete paving alleys in City Block 1354, to Chase Constr. Co., 5230 Devonshire St., $2,266—in City Blocks 4068E, 5317, and 5342, to A. Lewald, Inc., 5473 Delmar Blvd., $8,297—in City Blocks 4238 and 5689, to Skrainka Constr. Co., Security Bldg., $5,075. Grand total $15,638. Noted Apr. 28.

Nevada—S. C. Durkee, state hy. engr., Carson City, oiling F.A.P. 90 B and E, Reopened, Elko Co., to A. D. Drumm, Jr., Fallon, $29,795; F.A.P. 75, 54 B, and 90 D Reopened, to Basalt Rock Co., Inc., Napa, Calif., $37,424. Noted May 19.

New York—A. W. Brandt, comr. Hys., Albany, graveling and concrete paving 8.8 mi. Steuben Co., to C. P. Ward, Inc., 135 Ridge Rd. E., Rochester, $252,093—graveling, grading 1.66 mi. Albany Co., to M. T. Ingraham, Inc., Albany, $131,680—preliminary gravel surfacing 8.31 mi. Wyoming Co., to G. H. Bliven, 16 Main St., Rochester, $114,497—bituminous macadam paving 7.31 mi. Cayuga Co., to Bero Eng. & Constr. Corp., North Tonawanda, $147,401—8.73 mi. Montgomery Co. and concrete paving 6.79 mi. Dutchess Co., to Lane Constr. Corp., 39 Colony St., Meriden, Conn., $196,464 and $248,627 respectively—4.06 mi. Cayuga Co., to Peckham Road Corp., White Plains, $77,962—concrete paving 5.85 mi. Livingston Co., to Warren Bros. Road Co., Cambridge, Mass., $194,805—8.94 mi. Chemung and Schuyler Counties, to Bolton, Suits, Bolton & Gibbs, Watkins Glen, $263,977—7.72 mi. Orleans Co., to H. W. Patterson, Ellicott Sq., Buffalo, $216,306—5.21 mi. St. Lawrence Co., to Callahan Constr. Co., Inc., Auburn, $147,494—0.38 mi. Suffolk Co., to Johnson, Drake & Piper, Inc., Freeport, $29,286—6.91 mi. Chemung Co., to Roberts Paving Co., Salisbury, Md., $328,291—bridges in Cattaraugus Co., to C. G. Stewart, Buffalo, $60,939—in Orange Co., to Diel Bros., Newburgh, $70,917. Grand total $2,480,739. Noted Apr. 14 and May 12.

Ohio—O. W. Merrell, dir. hys., Columbus, concrete paving 1.608 mi. hy. Allen Co., to Churchill Constr. Co., Lima, $31,422—8.442 mi. Union Co., to A. W. Burns Constr. Co., 424 Woodland Ave., Columbus, $136,888 — brick paving, except brick 0.959 mi. Wayne Co., to Urban Bros., 328 9th St. S., Massillon, $21,970; furnishing, delivering brick for same project, to Medal Brick & Tile Co., Wooster, $9,864—grading, draining, bituminous macadam widening 2.0321 mi. Williams Co., to Brooks Constr. Co., 1123 Barthold St., Fort Wayne, Ind., $31,052—8.032 mi. Wyandot Co., to Seneca Constr. Co., Fostoria, $75,472—bituminous macadam paving Sects. "C" and "D" Cincinnati-Chillicothe Rd., Clinton Co., to Holmes Constr. Co., Wooster, $105,239. Grand total $411,907. Noted May 26.

Ohio—O. W. Merrell, dir. Hys., Columbus, concrete paving 4.925 mi. Sect. "C" Greenville-New Paris Rd., Darke Co., to Manix Bros., Greenville, $100,968; concrete paving 4.161 mi. Sects. "A" and "D-2" Dennison Cadiz Rd., Harrison Co., to Adams Bros. Contg. Co., 1 Muskingum Ave., Zanesville, $101,269.

O., Cincinnati—Hamilton Co., 12 in. tar bound macadam paving 6,000 sq.yd. Carolina Trace Rd., to J. Weil, Cleves and Louisville Pike, $9,167 est. $10,470; grading, tar bound macadam resurfacing 2,200 sq.yd. Settle Rd., to B. J. Jordan, Cincinnati, $4,662 est. $5,026.

O., Cincinnati—Hamilton Co., grading, draining, asphalt bound macadam resurfacing 11,000 sq.yd. Van Zandt Rd., to A. M. Sloan, 815 Cleveland Ave., $19,120 est. $21,515; grading, sewers, asphalt bound macadam resurfacing 9,000 sq.yd. Symmestown Rd., to O. E. Radabaugh, Hazelwood, $13,919 est. $18,285.

O., Cleveland—Cuyahoga Co., No. 5 slag and tar, 2,000 tons surface mixed macadam surface treating 1,243,572 sq.yd. roads, to Bituminous Constr. Co., Leader Bldg., $82,804 est. $137,507; curbing, grading, vitr. brick paving 23,300 sq.yd. North Miles Rd. from Green Rd. to Warrensville Centre Rd., to Cleveland Trinidad Paving Co., Western Reserve Bldg., $117,200.

Pennsylvania — State Hy. Dpt., Harrisburg, macadam paving 63,605 sq.yd. Route 440, Sect. 2, Newton and Ransoms Twps., Lackawanna Co., to H. R. Miller Co., Lancaster, $116,417; rein.-con. paving 105,000 sq.yd. Route 495, North East and Harbor Creek Twps., Erie Co., to W. J. Gallagher, Medina, N. Y., $252,855. Noted Apr. 28.

Pennsylvania — State Hy. Dpt., Harrisburg, macadam paving 54,751 sq.yd. Routes 16 and 504, Benton and Sugar Loaf Twps., Columbia Co., to F. D. Kesster, Northumberland, $96,395—32,078 sq.yd. Route 750, Sect. 2, President Twp., Venango Co., to A. Ferguson, McKeesport, $107,318—78,580 sq.yd. Route 220, Sect. 4, Porter and Blooming Grove Twps., Pike Co., to M. Brewster Co., Bogota, N. J., $111,052—47,171 sq.yd. Route 319, Lafayette Twp., McKean Co., to Minns Bros., Du Bois, $83,785—66,806 sq.yd. Route 411, Sect. 4, Benezette and Jay Twps., Elk Co., to Gray Bros., Youngstown, O., $156,461—rein.-con. paving 39,954 sq.yd. Route 272-Sect 3, Erie and Crawford Counties, to Chas. H. Fry Constr. Co., Erie, $102,556—111,529 sq.yd. Jefferson Co., to Roberts Paving Co., Salisbury, Md., $304,239. Grand total $961,806. Noted May 5.

Utah — State Rd Comn., Salt Lake City, graveling 11.2 mi. road between Plymouth Junction and Garland, Boxelder Co., to Wheelwright Constr. Co., Ogden, $18,883 est. $20,973; oil processing 34.1 mi. road, Wasatch and Tooele Counties, to Dodge Bros., Fallon, Nev., $67,175 est. $86,601.

Utah—State Rd. Comn., Ogden, concrete paving 2.9 mi. Utah Co., to Christensen & Gardner, Vermont Bldg., Salt Lake City, $69,833 est. $72,488—oil processing 39.5 mi. Cache and Boxelder Counties, to Northwestern Eng. Co., Rapid City, S. D., $79,106 est. $90,953—graveling 8.5 mi. Carbon Co., to Fisher Dray & Transfer Co., Helper, $16,546 est. $16,786. Grand total $165,485.

Wisconsin—State Hy. Comn., Madison, concrete paving 4,623 sq.yd. Appleton Subway and 6,111 sq.yd. Shawano Avenue Grade Separation Aproaches, Brown Co., to Simpson & Parker, 318 East Franklin St., Appleton, $14,949 and $11,608 respectively—27,110 sq.yd. Madison-Cambridge Rd., Dane Co., to F. S. Tillman, 5346 North Richards St., Milwaukee, $34,312. Grand total $60,968. Noted May 26.

Wisconsin — State and Hy. Coms. Burnett, Polk, Rush and Sawyer Counties, Superior, grading 11.58 mi. Burnett Co. and 1.019 mi. Osceola Relocation, Polk Co., to L. A. Bumgardner & Co., 919 New York Life Bldg., St. Paul, Minn., $64,739 and $11,468 respectively—5.503 mi. Radisson-Winter Rd., Sawyer Co., to A. Mews, Auburndale, $18,831—3.068 mi. Polk Co., to J. R. McLean, 1501 East 5th St., Superior, $7,488 — 6.742 mi. Rusk Co., to Goodearle & Raemisch, 639 Crandall Ave., Madison, $20,700. Grand total $123,266. Noted May 26.

Wisconsin—State Hy. Comn., Madison, grading Appleton and Shawano Ave. Subway Approaches, to C. Herring Suamico, $1,387 and $882 respectively; Port Subway Approach, to Marchese Bros., Inc., 435 Clinton St., Milwaukee, $13,769. Grand total $16,038.

Wisconsin — State Hy. Comn., 213 South Barstoe St., Eau Claire, applying 732,000 gal. asphalt Type "C" Pepin, Pierce and St. Croix Counties, to D. Seen, Osseo, $4,978—bituminous material in Clark Co., to Sarrington Milling Co., Delton, $525—furnishing 1,336,500 gal. asphalt Type "C" 60-70, to Standard Oil Co., 910 South Michigan Ave., Chicago, Ill., $41,902. Grand total $47,405. Noted May 12.

Wis., Marinette—City, rein.-con. paving 20,000 sq.yd. Logan and Carney Aves., to Carlin Bros., 532 Terrace Ave., Marinette, $33,146. Est. $32,000.

Wis., Milwaukee—Dpt. P. Wks., City Hall, to Bodemann Constr. Co., 2803 West 55th St., paving alley between North 5th and North 6th Sts. $1,124; alley between North 1st and Palmer Sts. $1,269; West Ruby St. $3,977—to T. Hockborth, 3070 North 22nd St., West Hampton Ave. $746; Glendale Ave. $176—to E. Raeltke, 3281 North 13th St., West Burleigh St., $4,411—to Badger Constr. Co., 125 East Wisconsin Ave., East State St. $7,122; West North Ave. $32,385—to White Constr. Co., 110 East Wisconsin Ave., West Seeboth St. $1,230; West Vliet St. $18,801. Grand total $71,241.

Wyoming—State Hy. Comn., Cheyenne, to C. B. Owen, Laramie, grading, bridging 9.718 mi. Converse Co. $27,861—to Taggart Constr. Co., Cody, 16.506 mi. Crooks and Weston Counties $43,949; oil processing road bed by plant mix 69.853 mi. Fremont and Natrona Counties $82,095—to W. A. Norris, Inc., Cheyenne, oil processing 23.275 mi. Platte Co. $21,753—to Green River Lumber Co., Green River, grand base course surfacing 12.198 mi. Sublette Co. $15,566; 11.135 mi. Uinta Co. $11,551; 1,000 tons crushed gravel, crushed rock delivered at Wamsutter or Red Desert $2,250—to Northwestern Eng. Co., Rapid City, S. D., oil processing 25.927 mi. Campbell Co. $29,069. Grand total $234,093. Noted June 2.

Ont., Niagara Falls—Suburban Area Comn., J. J. Nichol, secy., R.R. 2, asphaltic macadam paving 2.65 mi. hy., Stamford Twp., to Brennan Contg. Co., 400 Gage Ave. N., Hamilton, $48,485. Noted May 19.

Ont., Toronto—Asphalt paving Eastern Ave. and Leslie St., to Law Constr. Co., 225 Sterling Rd., $13,039—Avion Ave., to L. P. Acri, 28

Streets and Roads (Continued)

Grove Ave., $4,223—Parliament St., to McNamara Constr. Co., 53 Yonge St., $7,761 — Heather St., to Constructing & Paving Co., Confederation Life Bldg., $2,621. Grand total $27,644. Concrete curbing Avion Ave., to L. P. Acri, 28 Grove Ave., at 70c. per lin.ft.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

Mass., Winthrop—Commonwealth of Massachusetts, Metropolitan Dist. Comn., 20 Somerset St., Boston, 1,200 ft. concrete sea wall. Bill signed by Governor. Noted Dec. 10.

Tex., Port Arthur—City surveys completing sea wall for high water protection on Bay Front. Election soon $50,000 bonds for same. Address H. Smith, mayor.

BIDS ASKED

New Jersey—June 21, by Bd. Commerce & Navigation, State House, Trenton, redredging channels in section Inland Waterway in Gul Island Thoroughfare, Reeds Bay and Grassy Bay, Black Point, Galloway Twp., Atlantic Co., Contr. 60. V. Gelineau, dir. and ch. engr.

O., Cleveland—June 23, by City, breakwater, dock and overflow channel at Easterly Sewage Disposal plant, 4,000 cu.yd. concrete, 420 tons steel piling and 1,500 tons rip rap stone. $100,000. G. B. Gascoigne, Leader Bldg., engr.

CONTRACTS AWARDED

New Jersey—Dpt. Commerce & Navigation, State House, Trenton, dredging Forked River at Forked River and Cape May Harbor, at Cape May, to Hill Dredging Co., Ventnor, $37,000. Noted May 26.

N. S., Yarmouth—N. Desjardins, secy. Dpt. P. Wks., Ottawa, Ont., dredging, to Beacon Dredging Co., Halifax, $45,580. Noted May 5.

Bond Elections

Coming Bond Elections

Waterworks—Green Isle., Minn., June 20, $15,000.
Water and Drain System Impvt.—Angola, N. Y., $30,000.
Sea Wall on Bay Front—Port Arthur, Tex., $50,000.
Court House—Modesto, Calif., Stanilaus County, $150,000.
High School—North Sacramento, Calif. Grant Main High School Dist. $150,000.
Schools—Chattanooga, Tenn., Hamilton County, $736,000.

Bonds Voted

Purchase, Improving and Extending Appleton Water Co. System—Victorville, Calif., $50,000. C. L. Foulke, San Bernardino, Engr.
Sewage Disposal Plant—Tyler, Tex. $100,000.
Roads—Mitchell County, Iowa, $800,000.
Schools—Hannibal, Mo., $320,000.

Bonds Defeated

Water Plant, Purchase and Extension—Visalia, Calif., $250,000.
Water System, Purchase and Extension—Tulare, Calif., $250,000.
Bridge—Hinton, W. Va., $30,000.

FEDERAL GOVERNMENT

PROPOSED WORK

Ala., Marion — FISH HATCHERY — Dpt. Agriculture, Wash., D. C., fish hatchery on 600 acre tract. $500,000.

Calif., Los Angeles—CLEARING SITE—Treas. Dpt. at office Sup. Archt., Wash., D. C., withdrew bids to have been opened June 2, clearing site for U. S. Post Office. Noted May 19.

Conn., Rocky Hill—SOLDIERS HOME—Vet. Bu., Arlington Bldg., Wash., D. C., selected architects who will compete for privilege of drawing plans for U. S. Soldiers Home. $1,500,000.

Ill., Belleville—AIR FIELD—Con. Q. M., plans new barracks, hangar, headquarters and operations building, radio, photography, gas plant, chemical storage building, heating plant, paved concrete aprons, and landing field improvements. $785,000. Bill introduced in House of Representatives, Wash., D. C.

Mass., Dalton—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $70,000.

Miss., Jackson—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office.

N. H., Concord—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $90,000.

N. H., Lebanon—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., Post Office. $85,000.

N. H., Newport—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $80,000.

N. J., Englewood — POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., sketches by G. V. Harvey, 186 East Palisade Ave., Englewood, and Clinton & Russell, assoc. archts., 17 John St., New York, 2 story, basement, brick, steel. Engle St. $182,000. Noted Feb. 18.

Vt., Montpelier—POST OFFICE, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office and Court House. $300,000.

Va., Norfolk—ELEVATOR—Spec. 6863—Yards & Docks, Navy Dpt., Wash., D. C., 1 passenger elevator at Naval Operating Base.

Tex., Camp Bullis—TARGET RANGE, etc.—Con. Q. M., Fort Sam Houston, soon takes bids target range and sewerage system.

BIDS ASKED

Ala., Andalusia — REMODELING, ETC. — June 23, by Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office.

Ala., Montgomery — GAS and WATER MAINS, etc.—June 30, by Con. Q. M., Maxwell Field, gas and water mains, sanitary and storm sewers, in officers area, Maxwell Field; adv. E.N.-R. June 16.

Ala., Montgomery—ROADS—July 12, by Con. Q. M., roads, driveways, sidewalks in officers area.

Arizona — BRIDGE — June 28, by C. H. Sweetser, dist. engr. Pub. Rds., Title & Trust Bldg., Phoenix, constructing Oak Creek Bridge and approaches Sect. F, Route 7, Oak Creek Natl. Forest Hy., Coconino Natl. Forest, Coconino Co.

California—ROAD—June 23, by C. H. Sweetser, dist. engr. Pub. Rds., 461 Market St., San Francisco, grading, processing oil treated crushed rock surfacing 10.585 mi. Sect. B, Route 1, Generals Hy., Sequoia Natl. Park, Tulare Co.

Calif., March Field—GAS STORAGE TANKS—June 25, by Con. Q.M., two 25,000 gal. gasoline storage tanks, control equipment, fill and delivery lines for gasoline fueling system.

Calif., Sunnyvale—BUILDINGS—Spec. 6874 Wash., D. C., U. S. Post Office and Court House. —July 6, by Yards & Docks, Navy Dpt., Wash., D. C., 5 buildings at Naval Air Station.

Colo., Colorado Springs—POST OFFICE—June 23, by Treas. Dpt. at office Sup. Archt.,

Conn., Bridgeport—ELEVATORS—June 30, by Treas. Dpt. at office Sup. Archt., Wash., D. C., installing 2 freight elevators in U. S. Post Office.

Delaware and Maryland—DREDGING—June 29, by U. S. Eng., Wilmington, N. C., 97,500 cu.yd. from Inland Waterway from Delaware River to Chesapeake Bay (Chesapeake and Delaware Canal).

Fla., Pensacola—AIR CONDITIONING SYSTEM—Spec. 6882—June 22, by Yards & Docks, Navy Dpt., Wash., D. C., air conditioning system at Naval Air Station. Noted June 9.

Ga., Tifton—REMODELING, etc.—June 23, by Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office.

Ky., Bowman Field—GASOLINE FUELING SYSTEM—June 27, at office Con. Q.M., Jeffersonville Quartermaster Depot, Jeffersonville, Ind., constructing gasoline fueling system.

Ill., Rock Island—REMODELING, etc.—June 24, by Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office.

Ind., Vincennes—POST OFFICE—July 20, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Bayard-Schucker & Bixby, Vincennes, archts. Noted Mar. 3.

Ia., Burlington—REMODELING, etc.—June 24, by Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office.

Ia., Sioux City—ELEVATOR PLANT—June 21, by Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator plant for new 4 story, basement, 124 x 236 ft. U. S. Post Office and Court House.

Md., Baltimore—DREDGING—July 11, by U. S. Eng., 300 Custom House. 794,000 sq.yd. in cutoff section channel leading to Baltimore. Noted May 5.

Mich., Selfridge Field—LIGHTING SYSTEM—June 24, by Con. Q.M., installing night lighting system.

Mich., Selfridge Field—OIL STORAGE SYSTEM—June 20, by Con. Q.M., Selfridge Field, constructing oil storage system.

Minn., Fort Snelling—HOSPITAL—June 28, by Vet. Bu., Arlington Bldg., Wash., D. C., altering and constructing rein.-con., brick, cast and cut stone addition. $150,000. Private plans. Noted Apr. 2.

Miss., Greenville — MEZZANINE FLOOR — June 22, by Treas. Dpt. at office Sup. Archt., Wash., D. C., mezzanine floor in U. S. Post Office.

N. Y., Rochester—POST OFFICE—July 8, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $1,700,000. Noted May 5.

O., Columbus — ELECTRIC DISTRIBUTION SYSTEM—June 27, by Con. Q.M., underground electric distribution system.

Ore., Marshfield—POST OFFICE—July 19, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $140,000. Noted Mar. 17.

Ore., Portland—POST OFFICE—July 6, by Treas. Dpt. at office Sup. Archt., Wash., D. C., 1 story, mezzanine, 52 x 80 ft. rein.-con., brick, Lombard and St. John Sts. $60,000. F. M. Stokes, Chamber of Commerce Bldg., archt.

Pa., Grove City—POST OFFICE—July 1, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office; adv. E.N.-R. June 16. N Feb. 2.

R. I., Newport—PIERS—June 22, by Ya & Docks, Navy Dpt., Wash., D. C., repai pile and timber piers at Naval Torpedo Stati

Tenn., Memphis—RIPRAP STONE—June 2 by U. S. Eng., P. O. Box 97, 16,000 cu.yd. r rap stone.

Tex., Fort Clark — LAUNDRY — See "Co tracts Awarded."

Va., Hampton Roads—ELEVATOR—Sp 6863—June 29, by Yards & Docks, Navy Dp Wash., D. C., passenger elevator at Nav Operating Base.

Va., Langley Field—PAVEMENT—June 2 by Con. Q.M. constructing concrete paveme also paved aprons, roads and sidewalks heavier-than-air section, $45,000.

Va., Quantico—PLANT IMPROVEMENTS Spec. 6864—June 22, by Yards & Docks, Na Dpt., Wash., D. C., improving refrigeration lau dry, and power plants at U. S. Marine Barrack

Wash., Seattle—DREDGING—June 30, b U. S. Eng., 366,000 cu.yd. material in Duwamis Waterway, Seattle Harbor.

C. Z., Coco Solo—STEEL TANKS—Spec. 662 —June 22, by Yards & Docks, Navy Dpt Wash., D. C., steel tanks, concrete ethylizin plant enclosure, motor operated pumps, an fan, piping and ethylizing systems at Nava Fleet Air Base.

CONTRACTS AWARDED

Ala., Montgomery—CEILINGS—Con. Q. M Maxwell Field, ceilings for shops, at Maxwe Field, to Smith-Pew Constr. Co., 435 Irwi St. N. E., Atlanta, Ga., $30,634. Note Apr. 28.

Ala., Montgomery—LIGHTING FIXTURES—Treas. Dpt. at office Sup. Archt., Wash., D. C installing lighting fixtures, to H. A. Frambur & Co., 3320 Carroll Ave., Chicago, Ill., $4,26

Calif., Alameda—EXTENDING, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., extending, remodeling U. S. Post Office to W. G. Thornally, 354 Hobart St., Oakland, $63,80 (175 days). Noted May 5.

Calif., San Rafael—SPUR TRACK—Con. Q.M., grading, excavating and railroad in connection with Hamilton Field (Marin Meadows Bombing Base), to J. V. Galbraith, Petaluma, $9,071; roads, culverts, bridges, to Barrett & Hilp, 918 Harrison St., San Francisco, $23,244; railroad spur, ballast, and ties, to F. Bryant, 2911 23rd St., San Francisco, $4,150. Grand total $36,165.

D. C., Wash.—WAREHOUSE—Con. Q.M., Bolling Field, air corps warehouse, constructing quartermaster's building, maintenance building, warehouse and fire station and guard house at Bolling Field, to Harman Eng. Co., 844 Rush St., Chicago, Ill., $96,979. Noted May 5.

Fla., Jacksonville—CUTTER—U. S. Eng., P. O. Box 45, 6-blade steel cutter, to Pettibone-Mulliken Co., 4710 West Division St., Chicago, Ill., $1,574. Noted Mar. 31.

Ill., Chicago—HOSPITAL—Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, constructing addition to U. S. Marine Hospital, to A. W. S. Constr. Corp., 520 North Michigan Ave., $351,574 (420 days). Noted Apr. 28.

Ill., Hines—NURSES QUARTERS—Vet. Bu., Arlington Bldg., Wash., D. C., nurses quarters at U. S. Veterans' Hospital, to Anderson & Co., 1632 West 75th Pl., Chicago, $63,770. Noted May 12.

Ind., Greencastle — REMODELING, etc. — Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office, to W. R. Heath Constr. Co., Greencastle, $22,466. Noted May 19.

Ind., Hagerstown—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Prosser Howells, 3655 Madison Ave., Gary, $49,500. Noted Apr. 14.

Kan., Wichita—HOSPITAL—Vet. Bu., Arlington Bldg., Wash., D. C., buildings and utilities at U. S. Veterans' Hospital, to H. B. Ryan Co., 500 North Dearborn St., Chicago, Ill., $513,000. Noted Apr. 7.

Kan., Wichita—PLUMBING, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., plumbing, heating, electrical work for U. S. Veterans' Hospital, to Connors & Ripstra, 1015 East Douglas Ave., $180,616; elevators, to Otis Elevator Co., 810 18th St. N.W., Wash., D. C., $13,891. Noted Apr. 7.

La., Shreveport—APRONS, etc.—June 30, by Con. Q. M., constructing concrete aprons, runways, streets, roads, drains, at Barksdale Field, $83,000.

Me., Sanford—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing U. S. Post Office, to V. & M. Constr. Corp., 68 Cowles Ave., Yonkers, N. Y., $63,498 (300 days). Noted May 12.

Mass., Rutland—HOSPITAL—Vet. Bu., Arlington Bldg., Wash., D. C., 4 story, basement, 55 x 70 ft., 52 x 70 ft., and 50 x 130 ft., brick, granite, limestone administration and clinical unit, to W. P. Thurston Co., 301 South 4th St., Richmond, Va., $202,000 plus. Noted Mar. 10.

Mass., Woods Hole—PLATFORM and WALL—Superintendent Lighthouses, 600 cu.yd. concrete platform and wall, to A. McDonald Co., 1 Marginal St., Chelsea, $5,000, or more depending on exact yardage.

Mich., Fort Wayne—SHOP—Con. Q. M., Selfridge Field, blacksmith and wheelwright shop, to Culbertson & Kelly Co., 872 West Milwaukee St., Detroit, $4,989 (100 days). Noted Mar. 31.

Federal Government (Continued)

Mich, Jackson—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to North-Moller, Jackson, $305,189.

Missouri — CLEARING, etc. — U. S. Eng., Memphis, Tenn., clearing, grubbing 30 acres right-of-way riverside of St. John's Bayou Levee near New Madrid and for clearing 12 acres right-of-way between Stations 2/30 and 4/15, to M. E. Smith, Qulin, at $3,405.

Missouri—LEVEE REPAIRS—U. S. Eng., Memphis, Tenn., repairing rain wash damage to Birds Point-New Madrid Floodway Levee between Birds Point and New Madrid, to F. E. Warren, New Albany, Miss., at 45c. per hr. and $36 per day for eight 2-up teams with equipment, two 3-up teams and labor required at 60c. per hr. and $12 per day, one 4-up team at 65c. per hr. and $6.50 per day. Grand total $77 a day for 10 hrs. work, incl. 2 loaders and 3 dumpers.

Mo., Jefferson City—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., post office, incl. colonnade on west elevation, to A. W. Kutsche & Co., 2111 Woodward Ave., Detroit, Mich., $249,000 (450 days). Noted May 5.

Nev., Boulder City—DORMITORY—Bureau Reclamation, Denver, Colo., 2 story, 42 x 88 ft. dormitory, to W. M. Bickell & Co., Las Vegas, $2,927. Noted May 5.

New Jersey—DREDGING—U. S. Eng., 39 Whitehall St., New York, dredging 26,145 cu.yd. and removing 4,509 cu.yd. rock from Passaic River, to P. Sanford Ross, Inc., 277 Washington St., Jersey City, $61,308. Noted Mar. 24.

N. J., Hoboken—POST OFFICE—Standard Accident Insurance Co., 11 John St., New York, will complete 2 story, basement, brick, steel post office, River, Newark and 1st Sts., for Treas. Dpt. at office Sup. Archt., Wash., D. C. Quaker City Masonry Constr. Co., Hoboken, forfeited contract. Noted May 14.

N. J., North Bergen—SHOP—McDermott & Binda, archts., 582 Bergenline Ave., Union City, 1 story, basement, brick, steel, Van Wagenen St. and Bergen Pike, separate contracts, for J. Bock, c/o architects. $40,000. Noted May 19.

N. D., Carrington—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Redlinger & Hansen Co., 827 2nd Ave., Minneapolis, Minn., $47,900. Noted May 5.

Pa., Lewisburg—WATER and SEWER SYSTEMS—Bureau Prisons, Dpt. Justice, Wash., D. C., waterworks, sewage disposal, to Suburban Eng. Co., 15 West 38th St., New York. Contractor relet contract for 175 tons 8 and 12 in. c.i. pipe, to United States Pipe & Fdry. Co., Burlington, N. J. Noted Mar. 10.

Tenn., Chattanooga — ELEVATORS — Treas. Dpt. at office Sup. Archt., Wash., D. C., installing electric elevator plant, to Otis Elevator Co., 810 18th St. N. W., Wash., D. C., $22,800. Noted Apr. 7.

Tenn., Memphis—WINCHES—U. S. Eng., 4 steam winches, to McKiernan Terry Corp., Harrison, $6,836; 10 steam winches, to Clyde Sales Co., 29th Ave. and Michigan St., Duluth, Minn., $13,594. Noted May 5.

Tex., Fort Bliss—WATER TANK—Con. Q.M., 1 m.g. steel water tank, covered top, to Pittsburgh-Des Moines Steel Co., Neville Island, Pittsburgh, Pa., $16,890.

Tex., Fort Clark—LAUNDRY—Con. Q.M. 1 story, 50 x 60 ft. concrete, tile, day labor. $15,000.

RAILWAYS

BIDS ASKED

New Mexico—See "Contracts Awarded."

CONTRACTS AWARDED

New Mexico—Atchison, Topeka & Santa Fe R.R. Co., H. W. Wagner, ch. engr., Topeka, Kan., preliminary plans relaying 3.5 mi. track with 90 lb. rails 3½ mi. near San Marcial and 8.5 mi. near Rincon, force account.

New Mexico—Santa Rosa Rock Quarry Co., A. R. Hebenstreit, pres., Santa Rosa, will build 8 mi. railroad track to connect Santa Rosa Rock Quarry with Southern Pacific R.R. track in Santa Rosa. $120,000. Work begun.

SUBWAYS AND TUNNELS

PROPOSED WORK

N. Y., New York—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., rejected bids Jan. 29, altering structure along and under 4th Ave. **Maturity in summer 1933.** Noted Jan. 28.

GRADE CROSSINGS

PROPOSED WORK

N. Y., Albany—Delaware & Hudson R.R. Co., J. MacMartin, ch. engr., Albany, eliminating grade crossing by extending Pearl St. over tracks. $77,300. Pub. Serv. Comn. approved specifications and cost. Noted Nov. 13, 1930.

N. Y., Amsterdam—Amsterdam Chuctanunda & Northern R.R. Co., subsidiary New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, eliminating grade crossing Vrooman Ave. To exceed $25,000.

N. Y., Burdett—Lehigh Valley R.R. Co., G. T. Hand, ch. engr., 143 Liberty St., New York, eliminating Lake Street Crossing. To exceed $25,000. Pub. Serv. Comn. directed maps prepared of lands to be acquired.

N. Y., Elba—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, eliminating highway crossing on Barre Center-Elba Hy., $87,100.

N. Y., Elba—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, soon takes bids eliminating Oak Orchard and Ford Road Crossings. To exceed $25,000 each. Pub. Serv. Comn. directed preparing plans and specifications.

N. Y., Glen—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, eliminating grade crossing by crossing town highway over tracks. To exceed $25,000.

N. Y., Rome—New York Central R.R. Co., F. B. Freeman, ch. engr., 466 Lexington Ave., New York, eliminating grade crossing, on Durhamville-Rome Hy. To exceed $25,000.

N. Y., Van Etten—Lehigh Valley R.R. Co., G. T. Hand, ch. engr., 143 Liberty St., New York, eliminating Bastian, Van Etten Junction, Westbrook, Waverly Rd., Warner St., South Hill Rd. and Osbourne Rd. Grade Crossings. $323,600.

CONTRACTS AWARDED

Mo., St. Louis — Bd. P. Serv., City Hall rein.-con., tile lined pedestrian underpass under 12th Blvd. at Market St., to Smith-Cooke Constr. Co., 4829 Easton Ave., $9,973. Est. $13,200. Noted May 12.

N. Y., Erwin—Erie R.R. Co., G. S. Fannnig, ch. engr., Midland Bank Bldg., Cleveland, O., test borings for eliminating Kelly and Patterson Crossings, to Osborne Drilling Co., 70 East 45th St., New York. Noted Jan. 28.

N. Y., Port Jervis—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., test borings for West Main Street Crossing, to Osborne Drilling Co., 70 East 45th St., New York.

N. Y., Sanford—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Trust Bldg., Cleveland, O., eliminating Oquaga Crossing on McClure-Oquaga Lake Rd., to Bates & Rogers Co., 75 West St., New York, $43,229 est. $82,298; furnishing, delivering structural steel and cast steel pedestals in connection with above, to American Bridge Co., 30 Church St., New York, $11,076. Noted May 12.

PIERS AND WHARVES

PROPOSED WORK

N. Y., New York — North German Lloyd Steamship Co., lessee, 57 Bway., superstructure 1,020 ft. 3 deck pier, foot Canal St. $650,000. Dpt. Docks, Pier A, Battery Pl., owner. Noted Mar. 26, 1931.

N. C., Wilmington—S. J. Springer, Middle Sound, 625 ft. wharf, 3 ft. wide T on the end, 28 ft. x 56 ft., outer end 75 ft., landward from center line of canal, leading to Inland Waterway in Middle Sound, 4 mi. from Wrightsville Causeway. Application made to U. S. Army Engineer.

CONTRACTS AWARDED

Calif., Ocean Park—Ocean Park Realty Corp., gunite equipment for pier repairs at Ocean Park, to California Gunite Co., 1006 North Sycamore St., Los Angeles. Est. $50,000.

Mass., Boston—Commonwealth of Massachusetts, Dpt. P. Wks., State House, furnishing, driving fender piles and capping, Pier 5, South Boston, to A. A. Hersey & Sons, 197 Marginal St., East Boston.

AIRPORTS

BIDS ASKED

R. I., Hillsgrove—July 1, by Jackson, Robertson & Adams, archts., 1216 Turks Head Bldg., Providence, administration building, comfort station and bleachers at Rhode Island State Airport, for State & Providence Plantations, State Aviation Comn., State House, Providence. $25,000 or more. Noted May 17.

GRAIN ELEVATORS

PROPOSED WORK

Ind., Ladoga—Ashby Grain Elevator, grain elevator. $25,000. **Maturity indefinite.**

POWER AND LIGHTING

PROPOSED WORK

N. Y., Brooklyn—Bd. Transportation, J. H. Delaney chn., 250 Hudson St., New York, rejected bids May 17, furnishing, installing station tunnel lighting equipment in Smith St. from 9th St. to Church Ave. Noted May 12 under "New York, N. Y."

Tex., McLean—City Comn. voting June 14, on whether or not it will build and operate own gas system. McLean Gas Co. owns present system.

BIDS ASKED

Missouri—See "Contracts Awarded."

CONTRACTS AWARDED

Missouri—Kansas City Power & Light Co., 14th St. and Grand Ave., Kansas City, constructing, operating 8 mi. 6900 volt electric transmission lines in Saline Co., by own forces.

Alta., Edmonton—Calgary Power Co., Commercial Bldg., J. H. McDonald, ch. engr., power line at Sylvan Lake, to McGregor Constr. Co., 9343 100th St., $25,000.

PARKS AND SPORTS

PROPOSED WORK

Conn., Milford—Point Beach Country Club, A. Mahew, chn. building comn., 5 Point Beach Dr., revising plans and soon takes bids 2 story, 60 x 100 ft., frame, concrete golf club. $25,000. G. A. Quick, 170 Kneeland Rd., New Haven, engr.

La., New Orleans—Tulane University plans by Armstrong & Koch, Audubon Bldg., 1 story, 160 x 200 ft., brick gymnasium building. $140,000.

BIDS ASKED

N. Y., Jamaica—June 23, by W. C. Martin, archt. and supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, general construction, plumbing, drainage, bleachers for site improvements at Jamaica High School, Gothic Dr., Chapin Parkway, 168th St. and 84th Ave., for Bd. Educ., 500 Park Ave., New York.

CONTRACTS AWARDED

Mass., Boston—Park Dpt., 33 Beacon St., concrete walks and surfacing Webster Ave. Playground, concrete walks at North End Park, to A. G. Tomasello & Son, Inc., 250 Stuart St., $3,410 and $3,825 respectively; bitulithic paving Garden St. and Montclair Ave., to Frank J. Jacobs Co., 1251 Centre St., $11,195. Grand total $18,430. Noted May 12.

Tex., Belton—Heart O'Texas Council, Boy Scouts of America, Belton, 60 x 160 ft., 3 to 9 ft. deep, rein.-con. swimming pool, to T. K. Prewitt, Belton.

HEATING AND VENTILATING

BIDS ASKED

Wis., Green Bay—Brown Co., H. J. Nevelle, clk., taking bids heating plant, incl. 1 pipe steam plant, 2 pipe steam plant and hot water system. Private plans.

CONTRACTS AWARDED

N. H., Durham—University of New Hampshire, E. H. M. Lewis, tunnel for heating system extension, to Davison & Swanberg, 61 Amherst St., Manchester, $6,456; heating, to Jennison Co., Main St., Fitchburg.

N. Y., New York—Bd. Transportation, J. H. Delaney, chn. 250 Hudson St., installing steam heating system Concourse Yard, Independent System City-owned Subways, to Dierks Heating Co., 208 East 31st St., $73,987. Noted May 12.

N. Y., New York—Emigrant Industrial Savings Bank, 51 Chambers St., heating, new vent stacks, plumbing and mechanical equipment in apartment, to Roger & McKay, 19 West 44th St. To exceed $25,000. Noted May 26.

UNCLASSIFIED

PROPOSED WORK

N. Y., New York — OPEN AIR AMUSEMENTS, etc.—D. Pearlman Realty, c/o R. Gilman, 8 West 40th St., and Antigo Realty Co., 475 5th Ave., 100 x 100 ft., concrete, concrete block construction, one at 222nd St. and White Plains Rd., other at Westchester Ave. and Close Ave. N. Langer, 81 East 125th St., archt. and engr.

Tex., Wichita Falls—PIPE LINE—See "Industrial Buildings."

Utah and New Mexico—PIPE LINE—San Juan Pipe Line Co., 857 South Gramercy Pl., Los Angeles, Calif., 90 mi. 9 in. petroleum pipe line from San Juan Co., Utah to Farmington, N. M. To exceed $25,000. **Maturity indefinite.**

Wis., Superior—TRANSMISSION STATION—Station W.E.B.C., Superior, transmission station. To exceed $50,000. **Maturity soon.**

BIDS ASKED

N. Y. Bedford Hills—ELEVATOR—June 30, by Commissioner Dpt. Correction, State Office Bldg., Albany, electric elevator and dumbwaiter, Medical Center, Westfield State Farm.

CONTRACTS AWARDED

N. Y., Brooklyn — ESCALATORS, etc. — Sears Roebuck & Co., T. J. Carney, in charge, Arthington and South Homan Ave., Chicago, Ill., 4 escalators, 2 elevators for department store, to Otis Elevator Co., 130 Clinton St. To exceed $100,000.

O., Steubenville—KILN—Steubenville Pottery Co., constructing new tunnel bisque kiln to replace old kiln, to Harrop Ceramic Co., 310 West Broad St., Columbus. Est. $50,000.

Tex., Beaumont—PIPE LINE—Texas Co., Beaumont, and 720 San Jacinto St., Houston, laying 90 mi. 6 and 8 in. electric welded steel pipe for oil pipe line in vicinity of city, to N. A. Saigh Co., c/o Builders Exch. Bldg., San Antonio, $125,000.

MATERIALS

BIDS ASKED

GRAVEL etc.—**Louisiana**—June 28, by State Hy. Comn., A. P. Tugwell, chn., Baton Rouge, washed and screen gravel, 40% sand clay gravel, reef shell, clam shell, crushed limestone, slag and sand as required during month of July. H. B. Hinderlite, hy. engr.

Materials (continued)

CAST IRON PIPE—**Baltimore, Md.**—June 22, by Bd. Awards, furnishing, delivering c.i. pipe and fittings to Bureau Water Supply. L. Small, Municipal Bldg., water engr.

CAST IRON PIPE—**Lynn, Mass.**—City, City Clerk, City Hall, taking bids 8,000 ft. 6 in. and 2,000 ft. 10 in. cement lined c.i. pipe.

SURFACING MATERIAL—**New York, N. Y.**—June 22, by H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Ave., 600,000 gal. bituminous road surfacing material asphalt road oil for cold application (dust layer); and 65,000 gal. motor gasoline.

BROKEN STONE—**St. George, N. Y.**—June 22, by J. A. Lynch, pres. Richmond Boro, Boro Hall, 2,500 cu.yd. ¾ in. broken stone 8-8, as directed in Dists. 1 and 2.

METAL PIPE, SIGN POSTS, etc.—**Raleigh, N. C.**—June 21, by Division Purchase and Contr., A. S. Brower, dir., 1 carload corrugated metal pipe, 1 carload creosoted sign posts, 2 carloads nails, 44,000 lb. structural steel.

CONTRACTS AWARDED

SAND and CEMENT—**Berkeley, Calif.**—E. Turner, city clk., to Transit Concrete Co. Ltd., foot of Bway., Oakland, fine sand at $1.30 per ton, Medium 1 M at $1.90, Medium 4 M $1.90, and Medium M.P. $1.50; to Contra Costa Building Materials, 808 Gilman St., cement, delivered in carload lots at $2.45 per bbl. Rejected bids for rock and screenings, same will be purchased in open market.

CAST IRON PIPE—**Glendale, Calif.**—City, furnishing 2,500 ft. 24 in. Class 250 c.i. pipe, to American Cast Iron Pipe Co., 412 West 6th St., Los Angeles, $9,875.

CEMENT—**Los Angeles, Calif.**—Bd. Supervs. Flood Control Dist., 202 North Bway., 50,000 bbl. cement in cloth sacks, f.o.b. trucks at mill of bidder for use in construction San Gabriel Dam 2, to California Portland Cement Co., Pacific Mutual Bldg., at $2.01 per bbl., total $100,500.

PIPE—**Oakland, Calif.**—J. H. Kimball, secy. East Bay Municipal Dist., 25,000 ft. 4 in., 45,000 ft. 6 in., and 5,000 ft. 10 in. c.i. pipe, to U. S. Pipe & Fdry. Co. Monadnock Bldg., San Francisco, $33,300.

PIPE—**Kansas**—Standard Oil Co. of Kansas, Wichita, 10,000 tons steel pipe for 150 mi. 8 in. pipe line from Ritz-Decker oil fields to Neodesha refinery, to Youngstown Sheet & Tube Co., Stambaugh Bldg., Youngstown, O. Noted June 9, under "Unclassified."

CAST IRON PIPE—**St. Paul, Minn.**—Municipality, 1,200 tons cast iron pipe, to U. S. Pipe & Fdry. Co., Burlington.

BITUMEN—**Clayton, Mo.**—St. Louis Co., c/o County Court House, 350,000 gal. more or less bitumen (asphalt) to be ordered as needed during 1932, to Missouri Petroleum Products Co., 506 Olive St., St. Louis.

ROAD OIL—**Independence, Mo.**—See "Streets and Roads."

CAST IRON PIPE, etc.—**Norfolk, Neb.**—State Bd. Control, O. R. Shatto, secy., State Capitol Bldg., Lincoln, 700 ft. 4 in. Class "C" c.i. water mains, for Norfolk State Hospital, to Crane Co., 317 South 9th St., Lincoln, $875; conduit and electric supply, to Western Electric Supply Co., 2115 O St., Lincoln, $855.

SLOW CURING OIL—**Toms River, N. J.**—Bd. Freeholders Ocean Co., 575,925 gal. slow curing oil, to Tar Asphalt Service Corp., New Brunswick, $38,702.

PIPE—**Elbridge, N. Y.**—Municipality, 450 tons 8- to 10-in. cast iron pipe, to U. S. Pipe & Fdry. Co., Burlington, N. J.

ASPHALT PAVING BLOCKS — **Long Island City, N. Y.**—G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., 100,000 asphalt paving blocks, to Merit Supply Co., 401 Bway., New York, $8,832. Noted May 19.

STRUCTURAL STEEL, etc.—**Raleigh, N. C.**—Division Purchase & Contr., Morgan St., furnishing 6,057 lb. structural steel, to Virginia Bridge & Iron Wks., Builders Bldg., Charlotte, $169; 1 carload creosoted sign posts, to Gulf State Creosoting Co., 4431 Court R, Birmingham, Ala., at $0.49 each; 1 carload creosoted piles, to North State Creosoting Co., Wilmington, $893; 1 carload galvannealed steel sheets, to Dillon Supply Co., 215 South West St., $3,228; 1 carload galvannealed steel sheets and 1 carload shovels, to American Hardware & Equipment Co., 215 West 1st St., Charlotte, $3,228 and $12.71 doz. respectively; 4,739 lb. reinforcing steel, to O. Z. Wrenn, Kinney Bldg., Charlotte, $118; reniforcing steel to different destinations, to O. Z. Wrenn, Kinney Bldg., Charlotte, South G. F. Co., and Dietrich Bros., 220 East Pleasant St., Baltimore, Md.; miscellaneous iron and steel, to Seaboard Steel & Iron Co., Ostend and Paco Sts., Baltimore, Md., $112.

CAST IRON WATER PIPE—**Hamilton, O.**—W. J. Welsh, city purch. agt., 5,350 ft. 12 in. c.i. water pipe, to U. S. Pipe & Fdry. Co., Burlington, N. J.

CRUSHED ROCK—**Salem, Ore.**—Marion Co. crushed rock delivered on road at various places to J. S. Rusley, Milwaukee, $16,384.

ASPHALTIC ROAD OIL — **Salt Lake City, Utah**—State Rd. Comn., 31,900 bbl. asphaltic road oil, to Utah Oil Co., Newhouse Bldg., Salt Lake City, at $2.10 per bbl.

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ASPHALT—**LaCrosse, Wis.**—State Hy. Comn., LaCrosse, 1,150,000 gal. asphalt, Type "C" 50-60 and 70-80, to Standard Oil Co. of Indiana, 910 South Mihcigan Ave., Chicago, Ill., $43,832.

CHLORIDE, etc.—**Milwaukee, Wis.**—State Hy. Dpt. and Sheboygan Co., Commerce Bldg., furnishing 60 tons calcium chloride, Ozaukee Co. and 35 tons Washington Co., to Cunningham-Ortmayer Co., 15 Mich St., $2,463; applying 24,000 gal. tar, Walworth Co., to Barrett Co., 2800 South Sac Ave., Chicago, Ill., $1,992; 24,000 gal. tar Type B, Walworth Co., and applying asphalt Waukesha Co., to Hargrave Constr. Co., Cedar Rapids, Ia., $185 and $1,663 respectively; furnishing 130,000 gal. asphalt, Washington and Waukesha Counties, to Col-Tex Refining Co., Oklahoma City, Okla., $7,280; applying 48,000 gal. asphalt, Washington Co., to Sarrington Milling Co., Delton, $384; furnishing 136,000 gal. asphalt, Waukesha and Washington Counties, to Standard Oil Co., 44 Michigan St., $4,935. Grand total $18,902. Noted May 26.

ASPHALT—**Wisconsin Rapids, Wis.**—State Hy. Comn., Citizens Natl. Bank Bldg., Wisconsin Rapids, furnishing 150,000 gal. asphalt Type C60-70, Adams Co., to Standard Oil Co. of Indiana, 910 South Michigan Ave., Chicago, Ill., $4,635; applying 150,000 gal. asphalt Type C60-70, Adams Co. and asphalt, Juneau Co., to Sarrington Milling Co., Delton, $1,350 and $259 respectively. Grand total $18,902. Noted May 26.

EQUIPMENT

PROPOSED WORK

WATER HEATER — **Omaha, Neb.** — Metropolitan Utilities Co., 18th and Harney Sts., purchasing feed water heater, $4,700, and water softener, $6,500, both for gas plant. **C. D.** Robinson, engr.

HOSE and CHEMICAL ENGINES—**Hoboken, N. J.**—Bd. City Comrs., City Hall, purchasing 2 combination hose and chemical engines, aerial truck tractor, aerial truck extension ladder with extra wheels, $54,000. **Maturity soon.** J. O. Wittemore, city engr.

FIRE ENGINE—**Newton, N. J.**—Town Com., 115 Spring St., purchasing 1 fire engine for Newton Chemical Co. 2. $5,000 appropriated. **Maturity soon.**

BIDS ASKED

TRUCKS, etc.—**Indianapolis, Ind.**—June 23, by State Hy. Comn., J. J. Brown, dir., fifty-five 1½ ton heavy classification trucks, f.o.b. Crawfordsville, Fort Wayne and LaPorte Dists.

WATER TUBE BOILER, etc.—**Belchertown, Mass.**—June 21, by Commonwealth of Massachusetts, Dpt. Mental Diseases, State House, altering boiler plant for new equipment, incl. stoker, smoke flue, water tube boiler, etc. $25,000.

MANHOLES and COVERS—**Brooklyn, N. Y.** June 22, by H. Hesterberg, pres. Brooklyn Boro, Boro Hall, manhole heads and covers for year 1932.

SEATING—**Winnipeg, Man.**—June 22, by M. Peterson, city clk., City Hall, seating for civic auditorium, St. Mary's St. and the Mall. W. P. Brereton, 223 James Ave., engr.

CONTRACTS AWARDED

CHECK VALVES—**Los Angeles, Calif.**—City, T. Oughton, purch. agt., City Hall, fire service check valves, Spec. 2805, to Hersey Mfg. Co., 450 East 3rd St., $21,568.

SWITCHING GEAR—**Vernon, Calif.**—City, furnishing, delivering, installing complete switching gear for new power plant, to Delta Star Electric Co., 2437 Futon St., Chicago, Ill., $148,933.

TURBINE — **Colorado Springs, Colo.** — City, power plant improvements, incl. turbine, to General Electric Co., River Rd., Schenectady, N. Y., $90,850. Noted Mar. 31.

METERS—**Boston, Mass.**—City, Water Dpt., C. J. Carver, div. engr., 4 and 6 in. meters, to Hersey Mfg. Co., 381 E St., $6,480.

SHAFTS, PIPING, etc.—**Swampscott, Mass.** Town, Water & Sewerage Dpt., furnishing, installing shafts, piping, valves, etc., to Starkweather Eng. Co., 79 Milk St., Boston, $7,200. Noted May 19.

TURBINE PUMP—**Mapleton, Minn.**—Village, furnishing, installing one 300 g.p.m. deep well turbine pump, to Fairbanks Morse Co., Park Sq., St. Paul, $1,228. Noted May 12.

GASOLINE ENGINE, etc.—**Greenville, Miss.**—City, purchasing, installing gasoline engine and generator set with all necessary switching equipment, to Buffalo Gasoline Motor Co., 1280 Niagara St., Buffalo, N. Y., $7,352.

FIBRE CONDUIT—**Cleveland, O.**—City, furnishing fibre conduit for municipal light plant, to W. M. Pattison Supply Co., Rockwell Ave., $7,194.

FOREIGN

U. S. S. R., Leningrad—Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York, plans fabrication and manufacture of standardized dwellings and furniture for same, incl. saw mill, furniture factory, carpentry divisions and assembly department. To exceed $1,000,000.

Commercial Buildings

PROPOSED WORK

Calif., Los Angeles—Payment of $2,000,00 has been approved by Judge C. S. Crail, in w of late H. E. Huntington for construction o Collis. P. and Howard Huntington Memori Hospital. Probably be year for project matur Site not selected and architect not appoint

Ill., Chicago—Century of Progress Expos tion, Burnham Park, plans music group, aud torium, architect not appointed; plans by Hol bird & Root, 333 North Michigan Ave., photo graph building $75,000.

Ill., Chicago—Century of Progress, c/o Mr K. Fairbanks, Burnham Park, plans b Schmidt, Garden & Erickson, 104 South Mich gan Blvd., baby incubator building, Burnha Park.

Ill., Chicago—French Government plans by P Cret, Architects Bldg., Phila., Pa., expositio building, for Century of Progress Expositio Building, Burnham Park. $200,000. Note May 12.

La., New Orleans—Bd. Administrators, New Orleans Charity Hospital, voted to request the State Legislature for an appropriation of $750,-000-$800,000, constructing new nurses' hom at hospital.

La., New Orleans—See "Sports and Parks."

Mass., Belmont—Belmont Methodist Church, D. J. Imler, pastor, plans prepared by Ripley & LeBoutillier, 45 Bromfield St., Boston, superstructure 1 story, brick, stone church, Palfrey Rd. and Belmont St. $150,000.

Mass., Boston—City, Hospital Dpt., 818 Harrison Ave., plans by J. H. Ritchie & Associates, 100 Arlington St., Boston, and soon takes bids 3 story, basement, brick pathological building at City Hospital. $650,000. Noted Feb. 4.

Mass., Boston—Coolidge, Bulfinch & Abbott, archts., 1 Court St., soon lets contract 6 story, basement, 45 x 118 ft., brick hospital addition, Deaconess Rd., for New England Deaconess Hospital. $150,000 or more. Noted May 5.

Mass., New Bedford—Sassaquin Sanatorium, c/o H. Hammond & Son, 179 Water St., archt., new sketches 3 story, basement, brick infirmary. $150,000. Noted Jan. 28.

Mass., Somerville—C. F. Hurley, 276 Commonwealth Ave., Boston, sketches by Hefferman & Gray, 175 High St., Boston, rebuilding 3 story, basement, brick store, office, Union Sq. $150,000 or more. Noted Apr. 21.

Mo., Kansas City—City sketches by Keene & Simpson, Land Bank Bldg., and A. Gentry, Midland Bldg., city auditorium, 13th, 14th, Central and Washington Sts. $3,000,000.

Mo., Kansas City—Jackson Co., Court House, plans by Keene & Simpson, 1005 Land Bank Bldg., Wight & Wight, 400 1st Natl. Bank Bldg., F. C. Gunn, 1108 Natl. Federal Bldg., and E. F. Neild, consult. archt., Shreveport, La., 30 story, basement court house and jail, 12th, 13th and Locust Sts. $2,500,000. Legal injunction disposed of, will proceed at once with plans. Noted Mar. 31.

N. H., Dover—St. Charles Roman Catholic Parish, O. N. Desmarais, pastor, plans by D. R. Baribault, 1562 Main St., Springfield, Mass., and takes bids latter part of month rebuilding 1 story, basement, 60 x 155 ft., Indiana limestone church, Central Ave. $150,000. Noted Feb. 25.

N. H., Holderness — Holderness School for Boys, E. Weld, pastor, 27 East Wheelock St., plans by J. F. Larson, 27 East Wheelock St., Hanover, rebuilding 11 brick school buildings. To exceed $150,000. Probably no action this year.

N. J., Asbury Park—Y.W.H.A., E. S. Klausner, pres., 730 Cookman Ave., sketches completed 1 story, basement, brick, steel community center and gymnasium. $150,000. **Maturity in spring 1933.**

N. J., Bayonne—Owner, c/o C. I. Goldberg, archt., 898 Bergen Ave.; Jersey City, sketches office, store. $150,000.

N. J., Dumont—Lutheran Church of Our Redeemer, R. W. Heins, pastor, 256 McKinley Ave., sketches by V. Reeser, Larch Ave., 1, 2 and 3 story brick, stone, steel church, parish house, and parsonage. $150,000. **Maturity indefinite.**

N. J., East Orange—W. F. Bower, archt., 439 Main St., rejected bids altering and constructing 4 story, basement, brick, steel office, apartment, store addition, Main St., for A. Wosnitzer, 105 Wyoming Ave. $150,000. Noted Apr. 28.

N. J., Freehold—M. A. Wolf, archt., 845 Broad St., Newark, bids in August, general contract 2 story, basement, brick, steel, stone academy, for owner, c/o architect. $150,000. Noted May 12.

N. J., Hoboken—Bd. Educ., 524 Park Ave., altering Schools 3, 5, 6 and 9. $160,000. **Maturity indefinite.** Private plans.

N. J., Montclair—Friends Central School rejected bids 2½ story, basement, brick, steel, stone meeting house. $150,000. **Maturity indefinite.** Prince & Walton, 1220 Locust St., Phila., Pa., archts. Noted Apr. 28.

N. J., Ocean City — Mrs. J. Berwick, 401 Wesley Ave., 3 story, basement, brick, steel sanitorium, Wesley Ave. $150,000. **Maturity indefinite.** Architect not appointed.

Commercial Buildings **(Continued)**

N. J., Union City—W. P. Keane, 317 Monastery Pl., revised plans by P. A. Vivarttas, 110-48th St., and takes bids in August, 2 story, basement, brick, steel, office, store, Bergenline Ave. and 36th St. W. P. Keane, **$150,000.**

N. J., Wallington—Bd. Educ., J. F. Moriarty, superv. principal, Main Ave., sketches by J. T. Camlet, 26 Piaget Ave., Clifton, 2 story, basement, brick, stone, steel addition to School 3. $200,000.

New York — Dpt. Correction, State Office Bldg., Albany, selecting site for boys' institution, in Coxsackie, Seneca and Monroe Counties. To exceed $1,000,000. W. N. Thayer, comr.

N. Y., Buffalo—City, 5 story, stone, brick police headquarters, Church and Franklin Sts. $500,000. H. Beck, city archt.

N. Y., Jackson Heights—Bd. Educ., 500 Park Ave., New York, plans by W. C. Martin, Flatbush Ave. extension and Concord St., Brooklyn, P. S. 149, 4 story, 178 x 182 ft., 34th Ave. and 93rd St.

N. Y., Medusa—Methodist Church rebuilding church, destroyed by fire. $150,000. **Maturity indefinite.** Architect not appointed.

N. Y., New York—American Greek Catholic Orthodox Church, C. J. Sherwood, archbishop, Metropolitan See, c/o J. D. Lugosch, archt., 714 Bergenline Ave., Union City, N. J., cathedral. $150,000 or more. **Maturity indefinite.**

N. Y., New York—Bronx County Medical Society, B. H. Archer, chn. com. in charge, 391 East 149th St., 6 health clinics where group practice can be provided at moderate fees. $150,000 each. **Maturity indefinite.**

N. Y., New York—Metropolitan Square Corp., 60 Bway., plans German Building, containing offices, stores, showrooms, Rockefeller City, 5th Ave. To exceed $500,000. **Maturity later.** Group of German firms lessee. Noted June 9.

N. Y., New York—Seven Hundred Fifty Park Avenue Corp., c/o R. T. Lyons, archt., 40 East 49th St., 19 story, 47 x 92 ft. brick, steel hotel and residence, Park Ave. and 72nd St. $650,000.

N. Y., Otisville—Dpt. Hospitals, Municipal Bldg., New York, preliminary plans in progress and bids late in fall, 5 and 6 story, basement, brick, steel, stone sanitorium and pavilion, $2,000,000. Schwartz & Gross, 347 5th Ave., New York, archts. Noted Nov. 26.

Okla., Muskogee — Bacone College, B. D. Weeks, pres., sketches brick, concrete, stone buildings, incl. elementary school, boys' dormitory, industrial arts building, home demonstration building and art lodge building, etc., northeast of city. $150,000.

Pa., Beaver—Bd. Comrs. Beaver Co., J. J. Zimmerman, chn., rebuilding 3 story, basement, brick or stone court house, 3rd and Market Sts. $500,000. Architect not appointed.

Pa., Phila.—Skin and Cancer Hospital, 802-808 Pine St., soon lets contract hospital, 802-808 Pine St. $165,000. H. M. Wilson & Co., 18th and Brandywine Sts., archts. and engrs. Noted Dec. 31.

Pa., Washington—Warner Bros. Pictures, 321 West 44th St., New York, rebuilding State Theatre, destroyed by fire. To exceed $200,000. **Maturity indefinite.**

Tenn., Nashville—Tennessee Agricultural & Industrial Normal School, c/o State Bd. Educ., P. L. Harned comr., War Memorial Bldg., plans by Tisdale & Pinson, 1016 Ind. Life Bldg., 2 or 3 story, brick, stone, concrete administrtion building, $125,000; plans by E. Woolwine, 215 Lea Bldg., 2 or 3 story, 50 x 90 ft., brick, concrete, stone health building, $75,000; plans by G. Jackson, Jr., 220 Capitol Blvd., 1 story dairy and stock building, $40,000.

Tex., Tyler—Masonic Order soon takes bids 2 story, basement, brick, stone, steel, concrete masonic temple. S. Simmons, Tyler, archt.

Ont., Dundas—Congregation St. Pauls United Church, Cross St., plans by W. J. Walsh, 304 Terminal Bldg., Hamilton, new Gothic type church. $150,000. Interested in prices all materials.

BIDS ASKED

Calif., Pasadena—California Institute of Technology, 1201 East California St., taking bids (selected list contractors), air conditioning plant, 1201 East California St. $175,000. Hunter & Hudson, 41 Sutter St., San Francisco, engrs. Noted May 26.

Del., Marshallton — July 7, by State Bd. Health, Medical Arts Bldg., Wilmington, 2 story, 125 x 135 ft., brick, steel children's hospital. Stanhope & Manning, 503 Equitable Bldg., Wilmington, assoc. archts.

Del., Wilmington—June 27, by Bd. Educ., erecting and completing 2 story, part basement, 60 x 210 x 315 ft. brick, steel, concrete school, Jefferson, Madison, 37th and 36th Sts. Noted Mar. 31.

Mass., Cambridge—June 22, by Densmore, Le Clear & Robbins, 31 St. James Ave., Boston, archts., 3 story, basement, brick telephone exchange, plain found., Ware St., for New England Telephone & Telegraph Co., 50 Oliver St., Boston. $150,000 or more. Noted June 9.

Mo., Kansas City—See "Contracts Awarded."

N. J., Jersey City—See "Contracts Awarded."

N. J., Plainfield—C. C. Zantzinger, archt., Otis Bldg., Phila., Pa., taking preliminary general contract bids rebuilding church, Crescent and Watchung Aves. and East 7th St., for Crescent Avenue Presbyterian Church, J. J. Moment, 815 Park Ave. $150,000. Noted Apr. 14.

N. J., Westfield—W. E. Lehman, archt., 972 Broad St., Newark, taking bids general contract 2 story, basement, brick, steel, stone, mercantile building, plain found., Quimby St. and Central Ave., for Quimby Street Corp., c/o architect.

N. Y., Oriskany—June 30, by Bd. Educ., Central Rural School Dist., Whitestown, general contract 3 story, 120 x 150 ft. rural central school. $150,000. Bagg & Newkirk, 258 Genesee St., Utica, archts. Noted Mar. 31.

N. D., Bismarck—July 21, by State Bd. Control, general contract 18 story, tower, rein.-con., steel state capitol. $2,000,000. J. B. DeRemer, Grand Forks, and W. F. Kurke, Fargo, assoc. archts. Holabird, & Root, 104 South Michigan Ave., Chicago, Ill., consult. archts. Noted Mar. 3.

Pa., Warren—Owner, W. Anderson, in charge, c/o The Draughting Room, archts., 416 Wellman Bldg., Jamestown, N. Y., taking bids 6 story, basement, 90 x 100 ft., brick, steel, limestone hotel and drug store, Penn and Liberty Sts. $150,000.

CONTRACTS AWARDED

Del., Townsend — Townsend Dist. School Comn., general contract 1 story, part basement, brick, elementary and grade school, plain found., to Henry E. Baton Co., Inc., 1713 Sansom St., Phila., $58,370; plumbing, heating, ventilating, to John Borden & Bro. Co., 637 North 19th St., Phila., Pa., $12,987; electrical work, to Electric Contg. Co., 111 West 8th St., Wilmington, $2,497. Grand total $73,854. Noted May 19.

Ga., Atlanta—Loew's Theatre, 1540 Bway., New York, reconstructing Loew's Grand Theatre, to J. McWilliams, 113 Pryor St. N. E. Est. $250,000. Noted June 2.

Mo., Kansas City—Trianon Hotel Co., c/o Mucheback Hotel, altering hotel, 12th St. and Baltimore Ave., separate contracts. $150,000. A. H. Henry, Inc., Midland Bldg., archt.

Mo., St. Louis—McNichols Furniture Co., 1020-24 Market St., remodeling 6 story, basement, brick, steel store, 1020-24 Market St., to Martin Eng. Co., 915 Olive St.

N. J., East Orange—S. H. Kress & Co., 114 5th Ave., New York, general contract 2 story, basement, 70 x 120 ft., brick, steel store, office, 578-80 Central Ave., to Carlson Co., 89 Walnut St., Montclair. Est. $150,000. Contractor soon lets separate contract.

N. J., Hackensack—H. Pasternack, 42 Market St., general contract 2 story, basement, brick, steel store, office, 194-96 Main St., to Stephen Pellegrino, 198 Washington Pl., Passaic. Est. $150,000. Noted June 2.

N. J., Jersey City—W. Neumann, archt., 26 Journal Sq., altering 2 story, basement, brick, steel church, Summit and Magnolia Aves., separate contracts for Westminister Presbyterian Church, 304 Academy St. $150,000. Noted Feb. 25.

N. J., Mount Bethel—Bd. Educ., J. F. Mundy, Mount Bethel, general contract 2 story, basement, 128 x 128 ft., brick, steel, plain found., to State Builders, Inc., 810 Broad St., Newark; plumbing and heating, to Elling Bros., 336 North Grove St., Somerville; electrical work, to H. Schenck, 32 Meadowbrook Rd., Maplewood; steel, to Harco Steel Co., 1180 Broad St., Elizabeth. Est. $150,000. Noted Feb. 2.

N. J., Newark—Fanning & Shaw, archts., 49 Ward St., Paterson, general contract altering and constructing 2 story, basement, brick, steel church addition, to F. A. Callan, 25 Eastern Parkway, Newark, for St. Johns Roman Catholic Church, 22 Mulberry St. Est. $150,000. Noted May 12.

N. Y., Brooklyn—Sears Roebuck & Co., Arthington and South Homan Aves., Chicago, Ill., general contract 3 story, basement, tower, department store, to W. Kidde, 140 Cedar St., New York. Est. $1,000,000. Contractor awarded structural steel, miscellaneous iron work, to Jerome Iron Wks., 425 Bareto St., New York; reinforcing steel, to Rawlins Co., 30 Church St., New York. Noted Apr. 28.

N. Y., New York—H. O. Chapman, archt., 6 East 45th St., 8 story library, 17 East 47th St., to W. L. Crow Constr. Co., 101 Park Ave., for Mercantile Library, 17 East 47th St., $350,000. Contractor now taking separate contract bids. Noted May 26.

N. Y., New York—C. T. Wills, contractor, 286 5th Ave., New York, steel for 5 story club, for Union League Club, 5th Ave. and 51st St., to McClintic Marshall, 39 Bway.; excavation, to A. Volk, 1819 Bway.; elevators, to Otis Elevator Co., 11th Ave. and 26th St. Noted Sept. 17, under "Contracts Awarded."

O., Cleveland—First Hungarian Reformed Church, J. Herczegh, pastor, 2850 East 79th St., 3 story, 35 x 130 ft., brick, steel, concrete educational building, to Molnar & Mihaly, 3487 West 136th St. Est. $150,000. Noted May 5.

O., Columbus — Moby's M. Greenberg, genl. mgr., 168 North High St., 4 story, basement, 147 x 187½ ft., concrete, marble, bedford limestone store, to F. & Y. Constr. Co., 731 East Broad St., $130,000. Noted June 2.

Pa., Erie — W. T. Monahan, archt., 805 Palace Hardware Bldg., O'Neil Memorial Tower and Chapel, 2 story, basement, 55 x 110 ft., brick, stone, tile chapel and 6 story, 45 x 50 ft. tower, for Mercyhurst Collge and Seminary, 501 East Cooper Rd., to H. Platt Co., 1007 Palace Hardware Bldg. Est. $150,000. Noted May 26.

Pa., Phila.—F. G. Shattuck Co. (Schraffts), 58 West 23rd St., New York, catering, restaurant, candy store, etc., 1216 Chestnut St., to F. V. Warren Co., 152 Locust St. Est. exceeds $250,000. Noted June 2.

Industrial Buildings

PROPOSED WORK

Calif., Oakland and San Francisco—SERVICE STATIONS—Shell Oil Co. of California, Shell Bldg., San Francisco, 10 or more steel, concrete, brick super service stations, $15,000 each. Private plans.

Colo., Pueblo — BULK OIL STORAGE — Phillips Petroleum Co., storage building. To exceed $40,000.

Ill., Chicago—FOOD MART—Clark-Diversey Food Mart Inc., M. Shaps and L. Caplen, ch. stockholders, 2633 North Clark St., plans by J. Lewis, 7 South Dearborn St., rein.-con., asphalt, 2633 North Clark St. J. S. Stein, 7 South Dearborn St., designer.

Ill., Hillsboro—POWER PLANT—City, City Clerk, municipal light and power plant and distribution system. $200,000. Warren & Van Pragg, Decatur, engrs.

Indiana—GARAGES—State Hy. Comn., Indianapolis, brick, steel, concrete state garages at Bloomington, Aurora and Ridgeville. $45,000. J. J. Brown, dir.

Mich., Sault Ste. Marie—STORAGE PLANT—Fuel Oil Corp., Woodland Ave. and Grand Trunk R.R. tracks, Detroit, fuel oil storage plant, 1 m.g.c. or more, Portage Ave.

Minn., Elk River — LIGHT and POWER PLANT—City electric light and power plant. $85,000. W. F. Chadbourn, city clk.

Mo., Kansas City—PLANT—Dri-Ice Refrigeration & Service Co., R. S. McGuire, 1533 Grand Ave., rein.-con., brick, 19th St. and Kansas Ave. $150,000.

N. J., Carteret—CHEMICAL PLANT—Warner Chemical Co., rebuilding 2 story, basement, brick, steel, chemical plant, Roosevelt Ave. $50,000. **Maturity indefinite.** Architect not appointed.

N. J., Kearny—BULK OIL STATION—S. Smith Coal Co., 62 Johnston St., bids after Aug. 1, general and separate contracts 2 m.g. bulk oil station, dock facilities, coal storage and handling facilities, 35,000 ton capacity. Preliminary work on site to be done by day labor and separate contracts.

N. J., Keyport—LUMBER PLANT—Clifford Co., rebuilding lumber plant, Matawan Twp. **Maturity indefinite.** To exceed $40,000.

N. J., Millburn—CLOTHING FACTORY—P. Masella, 40 Main St., bids in September, 2 story, basement, brick, steel clothing factory, $40,000. E. P. Bonnett, 363 Bloomfield Ave., archt.

N. J., Montclair—GARAGE, etc.—Owner, c/o A. E. Ramhurst, archt., 516 Bloomfield Ave., sketches 2 story, basement, brick, steel garage and salesroom, $100,000. **Maturity indefinite.**

N. J., Rutherford—GARAGE, etc.—Owner, c/o H. C. Hammel, archt., 130 Branford Pl., Newark, 2 story, basement, 140 x 300 ft., brick, steel garage, superservice station repair and painting building. $150,000. **Maturity indefinite.**

N. J., Secaucus—LABORATORY—Bd. Freeholders Hudson Co., Court House, 2 story, basement, brick, steel, Laurel Hill. $40,000. **Maturity indefinite.**

New York—ELECTRIC PLANT—Northern New York Utilities Co., 58 Public Sq., Watertown, electric plant and distribution system, in Alexandria and Watertown. Company applied to Pub. Serv. Comn. for permission to construct.

N. Y., Binghamton — GARAGE, etc. — Marshall-Nash Motor Co., 36 Collier St., rebuilding garage, showroom, repair shop, Collier St. $40,000. **Maturity indefinite.**

N. Y., Brooklyn—GARAGE—M. Freidman, 236 Montgomery St., plans by S. L. Malkind, 93 Court St., 1 story, 109 x 120 ft. service garage and gas station, Utica Ave. and Winthrop St. To exceed $40,000.

N. Y., Brooklyn—SHOP, etc.—Harvey Development Corp., L. Silverman, pres., 2075 86th St., bids late in November, general contract altering and extending 1 story, brick shop, garage, gas station, Coney Island Ave. and Avenue L. A. Goldberg, 164 Montague St., archt. Noted June 2.

Industrial Buildings (Continued)

N. Y., Brooklyn—STORAGE—M. H. Renken Dairy Co., Myrtle and Classon Aves., will award contract about June 20, 3 story, 45 x 61 ft. storage, Classon and Myrtle Aves. $50,000. Koch & Wagner, 32 Court St., Brooklyn, archts. Noted May 19.

N. Y., Clyde—PLANT—Wood Milling Co., rebuilding part plant, Ford St., damaged by fire. $40,000.

N. Y., Diana—POWER PLANT—Northern New York Utilities Co., 58 Public Sq., Watertown, power plant and constructing distribution system. Company made application to P. Serv. Comn. for permit to construct.

N. Y., Diana—POWER PLANT—Harrisville Electric Light & Power Co., Harrisville, electric plant and distribution system, here and parts Lewis Co. $40,000. Applied to Pub. Serv. Comn. for permit.

N. Y., Long Island City—GARAGE—Charlrin Realty Corp., 163-18 Jamaica Ave., Jamaica, bids in fall on separate contracts, 100 x 194 ft. service garage, 44th St. and 25th Ave. $60,000. Murray & Klein, Court St., Brooklyn, archts.

N. Y., New York — FACTORY, etc. — M. Kasnowitz, 198 Canal St., plans by J. J. Gloster, 303 West 42nd St., 3 story, basement factory, storage, store, 202 Canal St. $40,000.

N. Y., New York—STORAGE—R. Muhlstein, 510 Madison Ave., plans by A. Weiser, 510 Madison Ave., altering and constructing 3 story, basement, 50 x 100 ft. extension, Lincoln Ave. and 135th St.

N. Y., Woodhaven—GARAGE—Krausahr & Aldus, 16 Court St., Brooklyn, plans by Lama & Proskauer, 383 Jay St., Brooklyn, 1 story, 53 x 108 ft. service garage, Metropolitan Ave. and 126th St.

O., Cincinnati—FACTORY—Metal Specialty Co., 1533 Riverside Dr., soon lets contract factory, Langdon Farm. $200,000. Tieg & Tee, 34 West 6th St., archts.

O., Crooksville—TUNNEL KILN—Burley & Winter Pottery Co., constructing additions, incl. new kiln unit, constructing new continuous tunnel kiln. $50,000. Private plans.

Tenn., Memphis—SERVICE STATION, etc.—F. and E. Thompson, or Kinzer Bros. Trucking Co. and E. Edwin Service Station, lessees, Jefferson, Lauderdale and Adams Sts., rebuilding service station, trucking, etc., Jefferson, Lauderdale and Adams St., destroyed by fire. $90,000. **Maturity indefinite.**

Tex., Wichita Falls—REFINERIES, etc.—Phillips Petroleum Co., Prairie Oil Co., et al., surveys started group refineries and construction 3 in. gasoline pipe line from point near here to Devol, Okla.

Va., Norfolk—PLANT—White Lumber Co., rebuilding plant, Church St. and railroad tracks. $60,000. **Maturity indefinite.**

Va., Hopewell — FACTORY — Atmospheric Nitrogen Corp., repairing plant damaged by fire. $40,000.

B. C., Vancouver — PLANT — Canadian Lighter Fluid Co. Ltd., 651 Hastings St., plans plant for manufacture of lighter fluids and other chemical products.

B. C., Vancouver—PLANT—Famous Foods Ltd., 3 story, 50 x 122 ft., frame, concrete found., incl. machinery.

B. C., Victoria — PLANT — La Crelita Beauticians Ltd., Yorkshire Bldg., plant for manufacture of beauty preparations. $50,000.

B. C. Vancouver—OIL REFINERY—Shell Oil Co. of British Columbia, Ltd., 559 East 5th St., oil refinery and distribution plant. $1,000,000.

Ont., Chatham—CRUSHING MILL—Archer-Daniels & Co., 600 Roanoke Bldg., Minneapolis, Minn., soon takes bids crushing mill for manufacture vegetable oils, etc.

Ont., Hamilton — FACTORY — United Carr Fastener Co., Beach Rd., H. S. Beddoe, mgr., completed negotiations for manufacturing in Canada the products of Dudley Lock Co. of Chicago, Ill., will install special equipment for manufacturing, locks, padlocks, locker locks.

Ont., St. Catharines—FURNACE MANUFACTURING—Corporation, c/o Lennox Furnace Co. Ltd. of Canada, Terminal Warehouse Bldg., Toronto, furnace manufacturing plant. To exceed $40,000.

BIDS ASKED

Conn., New Haven—HYGIENIC LABORATORY—June 20, by John B. Pierce Foundation, M. G. Ullman, Yonkers, N. Y., 2 story, 45 x 58 ft., wall bearing construction, Congress and Liberty Sts. $40,000. H. L. Quick, 18 Getty Sq., Yonkers, N. Y., archt. Noted Apr. 14, under "Unclassified."

Ill., Chicago—FERMENTATION BUILDING—Standard Brands, Inc., 2655 19th St., taking bids on revised plans remodeling fermentation building, 2235 West 48th St. $40,000. W. C. Bennett, 326 Madison St., engr.

Ill., Springfield—POWER PLANT—June 27, by City Council, power plant addition, condenser and boiler. Burns & McDonnell Eng. Co., 406 Interstate Bldg., Kansas City, Mo., engrs.

Ind., Fort Wayne — FACTORY — See "Contracts Awarded."

N. J., Hoboken—REFRIGERATOR PLANT—H. Deile & Co., 84 Jackson St., taking bids 1 story, brick, steel, plain found., 84 Jackson St. $40,000. Construction Service Corp., 80 Broad St., Elizabeth, archt.

N. J., Newark—WAREHOUSE—F. Grad, archt., 1023 Broad St., taking preliminary general contract bids 5 story, basement, brick, steel warehouse, 9-11 Comes Alley, for Market Street Holding Co., c/o architect. $150,000.

N. J., North Bergen—SHOP—See "Contracts Awarded."

N. Y., Brooklyn—CAR WASHING PLANT—Brooklyn and Queens Transit Corp., 385 Flatbush Ave., bids about June 20, general contract 1 story, 25 x 195 ft. car washing plant, Bway. and Jamaica Ave. H. J. Kolb, 385 Flatbush Ave., engr. and archt. Noted June 2.

N. Y., Brooklyn—GARAGE—See "Contracts Awarded."

N. Y., Corona — SHOP — See "Contracts Awarded."

N. Y., Corona—GARAGE, etc.—E. Baylis, c/o J. Baker, archt., 1009 Jackson Ave., Long Island City, bids about Sept. 1, 21 x 183 ft. garage, auto display rooms, repair shop, Northern Blvd. and 117th St. $100,000. Noted May 26.

N. Y., Jamaica — MARKET — D. Kaufer, 113-10 Sutpin Blvd., bids about July 1, 1 story, 40 x 100 ft., brick, concrete market, incl. refrigeration, Sutpin Blvd. and 119th St. L. Danachen, 149-14 Jamaica Ave., archt. and engr. Noted May 26.

N. Y., Long Island City—GARAGE, etc.—See "Contracts Awarded."

Pa., Altoona—WAREHOUSE—June 22, (invitation bids only), by S. H. Kress Co., 114 5th Ave., New York, 2 story, 30 x 70 ft., brick, steel, wall bearing, 1409-13 12th Ave. $40,000. E. F. Sibert Co., 114 5th Ave., New York, archts. Noted Mar. 17.

Wis., Manitowoc—PLANT and WAREHOUSE—See "Contracts Awarded."

CONTRACTS AWARDED

Calif., San Francisco—SERVICE WAREHOUSE, etc.—Goodyear Tire & Rubber Co., 6701 South Central Ave., Los Angeles, 2 story, rein.-con. service warehouse, shop, etc., to Meyer Bros., 727 Portola Dr., $40,935. Noted May 26.

Ill., Chicago—CHEMICAL FACTORY—G. D. Searle Co., 4733 Ravenswood Ave., rebuilding 6 story, 75 x 100 ft., brick, stone, 213-19 West Ohio St., recently destroyed by fire, to A. L. Jackson Co., 310 South Michigan Ave. Est. $100,000.

Ind., Columbus — LIGHT PLANT — City, municipal electric light plant, to H. Vogt, Louisville, Ky.; stoker, to Westinghouse Electric Co., 620 Guaranty Bldg., Indianapolis. Est. $40,000. Noted May 12.

Ind., Evansville—SUPER-SERVICE STATION—Gaseteria, Inc., brick, steel, rein.-con., Goodsell and Riverside Sts., to Tri-State Contg. Corp., 522 Market St. Est. $40,000.

Ind., Fort Wayne—FACTORY—P. Eckrich & Sons, Kalamazoo, Mich., factory, separate contracts. $50,000 or more. L. A. Kingscott, 204 Elm St., Kalamazoo, engr. and archt., supervised letting of contracts and construction.

Ind., Greencastle—HEATING PLANT—DePauw University, steel heating plant, to H. Vogt Co., Louisville, Ky. Est. $40,000. Noted Apr. 14.

Ind., Lawrenceburg—PLANT—Rossville Commercial Alcohol Corp., 122 East 42nd St., New York, rebuilding portion of commercial alcohol plant, 1st St., recently destroyed by fire. To exceed $40,000.

Ind., Muncie—BOILER PLANT—Bell Teachers College, general contract remodeling boiler plant, to Pickett & Gill, Inc., 420 Continental Bank Bldg., Indianapolis; piping, to Hayes Bros., 236 West Vermont St., Indianapolis; stoker, to Amer. Eng. Co., Aramingo and Cumberland Sts., Phila., Pa.; boilers, to H. Voght Co., 1000 West Ormsby St., Louisville, Ky. Est. $40,000. Noted May 5.

Ind., Vincennes—OIL PLANT — Mid-Continent Co., 1 story, 80 x 125 ft., steel, concrete, Scott St. and Baltimore and Ohio R.R. tracks, to A. W. Schmuck, 310 Scott St. Est. $40,000.

Mass., New Bedford—LAUNDRY—Standard Laundry, c/o Leven Davis, 27 Ethel St., rebuilding, re-equipping laundry, 28 Kenyon St. $40,000. **Maturity indefinite.**

Mich., Dearborn — GARAGE — Ford Motor Co., Dearborn, 1 story, brick, rein.-con., steel, plain found., to A. A. Albrecht Co., 1201 Penobscot Bldg., Detroit. Est. $40,000.

Mo., Farmington—SHIRT FACTORY—Chamber of Commerce and Rice-Stix Dry Goods Co., 1000 Washington Ave., St. Louis, general contract, 2 story, part basement, 100 x 135 ft., brick, concrete found., to C. McDaniel, Farmington, $34,927; heating, to Boswell Hardware Co., Farmington, $4,200. Noted May 12.

Mo., Kansas City—LAUNDRY—Carlson Estate, c/o Standard Laundry & Linen Supply Co., lessee, 1120 Holmes St., 2 story, basement, 70 x 130 ft., brick, rein.-con., stone, 1120 Holmes St., to Morris Hoffman Constr. C 603 Victor Bldg.; plumbing, to A. D. Jacobson Plumbing & Heating Co., 331 Southw Blvd. Est. $40,000.

Neb., Omaha—FLOUR MILL—Allied Mill Inc., J. B. Dehaven, vice pres. Bd. Trade Bld Chicago, Ill., rebuilding flour mill, destroyed b fire, 29th and B Sts., to Ryan Constr. C Keeline Bldg. $350,000 loss. Noted May 5.

N. J., Hoboken—FACTORY—R. B. Davi Co., 38 Jackson St., general contract 1 story basement corrugated paper manufacturing plan brick, steel, on 125 x 200 ft. site, to W. Kid Constructors, Inc., 140 Cedar St., New York N. Y. Est. $40,000. Automatic Paper Mchy Co., 311 Pine St., Elizabeth, lessee. Noted June 9.

N. J., Hoboken—PAPER PLANT—Hobok Land & Improvt. Co., 1 Newark St., 1 story basement, 160 x 700 ft. paper manufacturi plant, and 2 story, basement, 80 x 180 ft. offi Monroe and Madison Sts., to Otto Randolph Inc., 53 West Jackson St., Chicago, Ill. M Burlingham, 1 Newark St., Hoboken, in charg Est. $200,000. Noted May 12.

N. J., Union City—DISTRIBUTION PLANT etc.—Sheffield Farms Co., Inc., 524 West 57th St., New York, general contract 2 story, basement, brick, steel, distributing plant, office and stable, Hudson Blvd., to Deakman Wells Co 921 Bergen Ave., Jersey City. Est. $100,000 Noted May 26.

N. Y., Brooklyn—STORAGE—Colonial Beacon Oil Co., 155 East 44th St., general contract storage, Freeman St., to J. B. Roberts & Co. 949 Bway., New York. Est. $40,000. Contractor now taking bids separate contracts.

N. Y., Brooklyn—BAKERY—Larsen Baking Co., 732 Henry St., top addition for bakery Henry and Mill Sts., to Caye Constr. Co., 356 Fulton St. Est. $40,000. Contractor soon takes bids on separate contracts.

N. Y., Brooklyn—GARAGE—Rugby Co., Inc. c/o E. Greenberg, 914 45th St., 1 story, 100 x 100 ft. service garage, separate contracts. $40,000. M. N. Weinstein, 93 Court St., archt Noted June 2.

N. Y., Brooklyn—STORAGE—Trunz Pork Stores, 25 Lombard St., 3 story storage, to Grove Impvt. Co., 356 Fulton St. Est. $50,000 Noted Apr. 21.

N. Y., Brooklyn—SHOP—Southern Lumber Co., 771 Atlantic Ave., P. Applebaum, pres., general contract 3 story, basement, brick, extension, to I. Primost, 214 Throop Ave. Noted June 2.

N. Y., Corona—SHOP—F. Carlozzi, 148-63 42nd Ave., 1 story, 16 x 20 ft. 28 x 45 ft., 40 x 60 ft., and 13 x 17 ft. repair shop and garage, Roosevelt Ave. and 117th St., separate contracts. Private plans.

N. Y., Long Island City—GARAGE, etc.—Land Grove Realty Corp., 270 Bway., New York. 25 x 65 ft. garage, greasing, gas and service station, Roosevelt Ave. and 69th St., separate contracts. W. V. McDevit, 185 Forest Ave., St George, archt.

N. Y., New York — FACTORY — Seaman's Bank for Savings, R. H. Stever, pres., 74 Wall St., altering 6 story manufacturing plant, to A. L. Hartridge Co. Inc., 90 Broad St Est. $40,000. Noted May 19.

N. Y., Ossining — STOREHOUSE — Commissioner Correction, State Office Bldg., Albany, general contract store house at Sing Sing Prison, to Shapiro Bros., 1560 Bway., New York, $69,390; heating, to J. Winkel, Larchmont, $1,692; sanitary work, to Levine Plumbing & Heating Co., 520 East 11th St., New York, $3,390; electrical work, to Rao Eng. Co., 370 Lexington Ave., New York, $1,675. Grand total $76,147. Noted Apr. 28.

O., Piqua—POWER PLANT—City, L. G. Whitney, mgr., boilers for municipal light and power plant, to Combustion Eng. Corp., 200 Madison Ave., New York, $73,599; turbines, to Elliott Co., Morris Bldg., Pittsburgh, Pa., $129,830; condensers, to Worthington Pump & Mchy. Corp., Rockefeller Bldg., Cleveland, $16,027. Grand total $239,456. Noted Mar. 31.

Wis., Combined Locks — FACTORY — Combined Locks Paper Co., 1 story, basement, 60 x 180 ft. and 48 x 72 ft. rein.-con., brick, to C. R. Meyer & Son Co.; 50 State St., Oshkosh. Noted June 9.

Wis., Manitowoc—PLANT and WAREHOUSE—Manitowoc Cement Block Co., 903 North 6th St., 1 story, basement, 40 x 80 ft., rein.-con., brick, day labor. W. J. Raeuber, 926 South 8th St., archt.

B. C., Port Alberni—POWER PLANT—B. C. Electric Power & Gas Co., E. J. Cronk, dist. mgr., plans by engineers of National Utilities Corp. (subsidiary of Owner), installing 3 diesel electric unit as extension to existing power plant. Power house building will be 30 x 65 ft., brick, steel. In addition to generating equipment, the plant will be provided with ample-sized centrifugal oil separator for cleaning all lubricating ois used in entire pant. $70,000. Owner builds.

Man., Fort Churchill — FREIGHT SHED — Dpt. Railways & Canals, Ottawa, Ont., 1 story, steel, sheet metal freight shed on main dock of Hudson Bay Ry., to Carter-Halls-Aldinger Co. Ltd., Royal Bank Bldg., Winnipeg, $100,000.

See proposal advertising on page 51

CONSTRUCTION NEWS

SECTION OF ENGINEERING NEWS-RECORD—JUNE 23, 1932

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WATERWORKS

PROPOSED WORK

Ill., Wilmette—Village rejected bids Apr. 5, pumping station, filtration plant. $500,000. Project indefinitely postponed because of bond market situation. Noted Mar. 17.

O., Grafton—Village, steel elevated tank and water softener system. $15,000. R. F. MacDowell, Chester Twelfth Bldg., Cleveland, engr.

BIDS ASKED

Calif., Santa Clara—July 5, by City Council, steel, concrete reservoirs. G. Sullivan, city engr.

Conn., Bristol—See "Contracts Awarded."

Neb., Valley—City, L. Coy, clk. taking bids Sect. 1, one 16 in. 300 g.p.m. tubular well, 100 ft. deep, alternate A, one 18 in. 300 g.p.m. gravel treated well, 100 ft. deep (Layne Western type) or alternate B, one 18 in. 300 g.p.m. gravel treated well, 100 ft. deep (Kelly type); Sect. 2, one 300 g.p.m. deep well turbine pump and motor installed complete; Sect. 3, 48 ft. 6 in. Class B or Class 150 c.i. pipe, 1/5 ton c.i. specials; Sect. 4, pipe line labor and one wet connection; Sect. 5, 1 brick pump house. Henningson Eng. Co., 326 Union State Bank Bldg., Omaha, engr.

O., Youngstown—June 28, by D. Parish, water comr., building to house pumping equipment, Myrtle and Edwards Sts.

CONTRACTS AWARDED

Conn., Bristol—Water Bd., City of Bristol, raising dam 10 ft. at Reservoir 5, and building spillway, own forces. $51,000. Metcalf & Eddy, Statler Bldg., Boston, Mass., engrs. Noted June 9.

Conn., Newtown—State, face brick pumphouse, pumping equipment, 6 rein.-con. well houses, to Stephen B. Church Co., Seymour. Est. $15,000. Noted June 2.

Ill., Geneva—City Council, 300,000 gal. steel tank on tower, to Chicago Bridge & Iron Co., 1305 West 105th St., Chicago, $11,170. Est. $20,000. Noted Apr. 23.

N. Y., Warwick—Dpt. Social Welfare, State Office Bldg., Albany, water supply at New York State Training School for Boys, to State Contg. Corp., 923 Old Repperham Ave., Yonkers, $27,743. Noted Apr. 14.

SEWERS

PROPOSED WORK

Mass., Boston—City, Dpt. P. Wks., City Hall, 10 in. and up concrete sewer pipe and 12 in. and up surface drains, catch basins, in sections Babson St., Metropolitan Ave. and Keith St. $25,000 or more. J. A. Rourke, comr.

N. Y., Brooklyn — H. Hesterberg, pres. Brooklyn Boro, Boro Hall. Rejected bids May 18, sewage pumping station and plumbing. Noted May 12.

BIDS ASKED

Ia., Mount Pleasant—June 27, by City, J. P. Budde, clk., sewage disposal works. $2,000. Hall Eng. Co., Centerville, engrs.

Ky., Bowling Green—July 15, by City, lateral sewerage system. $85,000. J. N. Chester Engineers, Clark Bldg, Pittsburgh, Pa., engrs.

Mass., Boston—June 27, by J. A. Rourke, comr. P. Wks., City Hall, concrete sewer work on private land, West Roxbury and in Dorchester Ave. from Hoyt St.—June 30, concrete sewers Chisholm Rd. and Poplar St., West Roxbury; and in Arlington St. between Piedmont and Fayette Sts., involving 10 in. and up sewer pipe, catch basins, manholes, outlets, etc. To exceed $25,000.

N. Y., Brooklyn—June 29, by H. Hesterberg, pres. Brooklyn Boro, Boro Hall, sewer basin on Avenue T; storm and sanitary sewers in Kenmore Pl., Voorhies and Bedford Aves.; grading Voorhies Ave.

N. Y., St. George—June 29, by J. A. Lynch, pres. Richmond Boro, Boro Hall, temporary sanitary sewer in Nash Court, from Nelson to Cleveland Aves.

Tex., Dallas—See "Contracts Awarded."

Tex., Sulphur Springs—June 30, by S. Gafford, mayor, Sulphur Springs, sewage disposal plant improvements. City Engineer, Sulphur Springs, engr.

CONTRACTS AWARDED

Calif., Los Angeles—Bd. P. Wks., City Hall, Sect. 34-E, North Outfall Sewer from White Oak to Corbin Aves., in Van Owen St., involving 13,225 ft. vitr. pipe, to M. Miller, 308 West 2nd St., $41,539. Noted Mar. 24.

Kan., Colby—City, 3,768 ft. 10 and 12 in. pipe and sewerage work, to Hoak Constr. Co., 1007 Hubbell Bldg., Des Moines, Ia., $41,319.

Mass., Boston—Dpt. P. Wks., 500 ft. 12 in. and up concrete sewer in Parker St., to M. D. Russo & Co., 125 Princeton St., Medford, $6,314; 1,000 ft. 12 in. and up concrete sewer in Coldman St., to Zoppo & Civitarese, 36 Richards Ave., Roslindale, $13,000. Noted May 19.

Mo., Washington—City, 14,300 lin.ft. 10- to 15-in. tile and c.i. and 3,000 ft. 8 in. tile sewers in streets in South Side Sewer Dist., to Stiers Bros. Constr. Co., 2944 Magazine St., St. Louis, $20,563. Est. $30,000. Noted Mar. 10.

N. Y., Bedford Hills—Dpt. Correction, State Office Bldg., Albany, sewers and waterlines at New York State Reformatory, to Sareno Contg. Co., 1959 Colden Ave., New York, $18,195. Noted May 12.

N. Y., Brooklyn—H. Hesterberg, pres. Brooklyn Boro, Boro Hall, sewers in East 95th St., to A. Capaso, 4121 Gunter Ave., New York, $1,817; Elmore Pl., to Federico & Fernti, $3,514; East '58th and East 87th Sts., to M. Fornara, 216 1st Ave., $1,640 and $1,306 respectively; East 67th St., to S. Guerriero, 1024 66th St., $2,436; Remsen Ave., to E. Meluccio, 1209 61st St., $3,164; Gravesend Neck Rd., to J. Picone Contg. Co., 4616 Glenwood Rd., $71,000. Grand total $84,876. Noted May 26.

N. Y., New York—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., sewers in Greystone Ave., to C. Turiano Contg. Co., 2913 Coddington Ave., $4,590; Olvinville Ave., to F. P. S. Contg. Co., $4,263. Noted May 19.

N. Y., New York—S. Levy, pres. Manhattan Boro, Municipal Bldg., sewers in extension of Fort Washington Ave., to L. E. G. A. Constr. Co., 71 Skillman St., Brooklyn, $9,150; receiving basin in West 137th St., to E. T. Barry, 126-06 139th Ave., Laurelton, $1,155. Noted May 12.

N. Y., Ossining—Dpt. Correction, State Office Bldg., Albany, sewers and waterlines at Sing Sing Prison, to Tallow & Kearns Constr. Co., 541 Longfellow Ave., New York, $17,574. Noted May 19.

N. Y., Yonkers — Westchester Co. Sanitary Sewer Comn., White Plains, 1st section connecting link between North Yonkers sterilization plant on Saunders Dock and North Yonkers Tunnel, to State Contg. Co., Inc., 923 Nepperhan Ave., $72,000. Noted June 2.

Tex., Dallas—City, c/o O. H. Koch, sanitary sewers in Spring Ave. from Lagow to Frazier Sts.; 3rd St. from Nellie to Metropolitan Sts. Denlow-Helen St. from Fitzhugh to Texas & Pacific Ry., Foreman St., from Haskell St. to Texas & Pacific Ry., Latimer to Octavia Sts., Metropolitan St. from Jordan St. from Oakland to Ruskin Sts, Myrtle St. from Metropolitan to Romine Sts. and Clark Court, day labor.

Wash., Seattle—Bd. P. Wks., 7,700 ft. 15- to 18-in. triple strength vitr. clay sewer in 43rd Ave. N., unit Lake Washington Intercepting Sewerage System; to J. Coluccio, 1642 Lane St., $87,927. Est. $100,000. Noted May 19.

Wis., Milwaukee—Dpt. P. Wks., to Kehrein Bros., 2142 North 17th St., sewers in North 18th St., $5,788; to Wisconsin Sewer & Constr. Co., 2246 South 35th St., in North 28th St., $1,369; to Comer & Kominski, 745 46th Ave., South 27th St., $1,642; to General Contractors, Inc., 4738 West Lisbon Ave., West Burleigh St. $10,854, West Center St. $22,895, West State St. $10,897. Grand total $58,185.

WASTE DISPOSAL

PROPOSED WORK

N. Y., Greenburgh—Town completed plans incinerator, Old Sprain Rd. To exceed $25,000. Site selected, will proceed when injunction secured by property owner is dismissed.

BIDS ASKED

New York—Dpt. Sanitation, Municipal Bldg., New York, bids about Aug. 1, incinerators at 126th St. and 9th Ave., $960,000; and at Zerega Ave. $950,000 both New York; at Douglaston, $962,000. Committee Bd. Estimate authorized appropriations. Incinerator at Cromwell Ave. and East 150th St., New York, deferred indefinitely. Noted Dec. 24.

BRIDGES

PROPOSED WORK

California—State Hy. Comn., Sacramento, cancelled bid call scheduled for opening June 29, rein.-con. girder bridge over Atchison, Topeka and Santa Fe Ry., 2 mi. south of Del Mar, San Diego Co.; 2 rein.-con. bridges and 814 lin.ft. roadway approaches to be graded and concrete paving, near Ventura, Ventura Co. New bids later.

Kan., Fort Scott—Will not hold election June 7, 200 ft. rein.-con. bridge over Marmaton River on North National Ave., $45,000. May submit at August primary. F. Hawthorne, city engr. Noted May 19.

New Jersey and Delaware—Delaware & New Jersey Bridge Corp., G. A. Casey, 1101 Broom St., Wilmington, Del., bridge over Delaware River at Wilmington, Del. $9,000,000. Bill now pending in Congress to grant company franchise.

Texas and Mexico — Fort Hancock-Porvenir Bridge Co., Fort Hancock, granted permit by Mexican Govt., and bill pending in Congress, for Federal authority for toll bridge over Rio Grande at Fort Hancock, Tex. $250,000.

Tex., Wellington—Fort Worth & Denver City Ry. Co., R. C. Gowdy, Denver, ch. engr., Colo., 700 ft. timber, rein.-con., steel bridge over Buck Creek, north of here.

BIDS ASKED

Calif., San Jose—See "Contracts Awarded."

Illinois—July 12, by Dpt. Purchase & Constr., Springfield, superstructure Smiths Highway Bridge, Channel, Ill., Contr. B-8; superstructure Illinois River Bridge, at Marseilles, Contr. B-20, for State of Ilinois, Div. Waterways, Chicago; adv. E.N.-R. June 23.

Mass., Winchendon—See "Contracts Awarded."

Michigan—June 29, by H. W. Hagaman, div. engr., 504 Eddy Bldg., Saginaw, FBr. 1 of 56-8-4 Contr. 3, 108 ft. 9 in. steel truss span with welded battle-deck steel floor over Salt River; also FBr. 1 or 56-8 2, Contr. 4, two 35 ft. approach and one 128 ft. 7½ in. steel truss spans, Sanford, both Midland Co., for State Hy. Comn., Lansing.

Missouri—July 1, by State Hy. Bd., Jefferson City, bridges in various counties.

New Jersey—July 5, by State Hy. Comn., Trenton, viaduct across South River, Pennsylvania R.R. tracks and Main St., at Old Bridge, Middlesex Co. A. L. Grover, ch. clk.; adv. E.N.-R. June 23.

O., Cincinnati—See "Streets and Roads."

Okla., Oilton—June 28, by State Hy. Comn., Oklahoma City, 8 span 600 ft. bridge near here. C. L. Wilson, state hy. engr.

Tex., Boca Chica—See "Contracts Awarded."

CONTRACTS AWARDED

Calif., Los Angeles—Los Angeles Co., steel girder, rein.-con. bridge, concrete pile founds., concrete deck and railings over Rio Hondo at Firestone Blvd., to Chas. W. Pettifer Co., 733 West 14th St., Long Beach, $70,750. Noted May 26.

Calif., Oakland—W. W. Campbell, city clk., rein.-con. trestles in Park Blvd., to A. Cederborg, 1453 Excelsior Ave., $32,794.

Calif., San Jose—Southern Pacific Co., 65 Market St., San Francisco, rein.-con. viaduct, San Carlos St., own forces. $100,000.

Maine—State Hy. Comn., Augusta, constructing Nichols Bridge, to R. Giovannucci, Pittsfield, $9,309—Decker Bridge, to Green & Wilson, Waterville, $9,125—Mother Walker Bridge, to J. H. Kerry, Rumford, $7,442 — Mayfield Bridge, to Jas. Frederick & Co., Pittsfield, $3,670—Gerry and Bowman Bridges, to Reed & Reed, Woolwich, $4,192 and $6,337 respectively. Grand total $40,075. Noted May 19.

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, concrete bridge floor and work on approaches for single 200 ft. span bridge known as Miller's Bridge over Patuxent River Rd., Contr. AA-121-1-87, Anne Arundel Co., to Jarboe & Haughton, Mechanicsville, $9,483. Noted May 19.

Mass., Winchendon — Town, G. Beal, for George M. Whitney Bridge, concrete, day labor. $25,000. L. E. Moore, 73 Tremont St., Boston, engr.

Michigan—W. J. Kingscott, div. engr., 213 Watson Bldg., Grand Rapids, FBr. 1 of 70-5-17 Ottawa Co., Contr. 2, to W. J. Anschultz, Carrollton, $7,380—FBr. 3 of 41-24-7, Kent Co.,

See proposal advertising on page 45

Bridges (Continued)

Contr. 2, to Peninsular Constr. Co., Grand Rapids, $6,253—Contr. 1 for both bridges, to Lackawanna Steel Constr. Co., Walden Ave., Buffalo, N. Y., $1,931 and $1,552 respectively. Grand total $17,116. Noted May 12.

Missouri—State Hy. Bd., Jefferson City, to H. H. Ruddell, Springfield, bridges over West Fork Clear Creek, $1,470; over East Fork Clear Creek, $1,571, both Benton Co.—to G. W. Condon Co., 233 Grain Exch. Bldg., Omaha, Neb., over East Lowest Creek, Sullivan Co. $17,055; over Gasconade River, Laclede Co. $24,388—to Massman Constr. Co., 519 Amer. Bank Bldg., Kansas City, over Pin Oak Creek, $6,143; over Blackwater Creek, $4,958, bridge on Pittville-Holden Rd., $1,967, all Johnson Co.—to J. L. Pohl, Nevada, over North Wakenda Creek, $3,551; on Hardin-Brayman Rd., $586; over Crab Apple Creek, $2,045, both Brayner Co.—to Maxwell Constr. Co., Columbus, Kan., over North Fork, $19,538; on Route-57-North Rd., $2,119; over North Fork Overflow, $9,342; over Springs River, $25,996—to R. G. Aldrige, 1310 State Ave., Kansas City, over Brush Creek, Carroll Co. $3,167; over Creek, $627; over Brushy Creek, $2,598; over Jones Branch, $2,501; over Fitzgerald Creek, $1,736, all foregoing McFall Co.—to Keifner & Geile Constr. Co., Perryville, over Zahner Branch $1,060; over branch both Perry Co.; over Creek, $1,549; over Creek $1,256; over Creek, $1,155; over Creek, $1,301, all foregoing Stoddard Co.—to M. E. Gillioz, Monett, over Taven Creek, $12,951; over Rabbitthead Creek, $1,778; over Hansford Branch, $2,429, all foregoing Miller Co.; over West Glaize Creek, $1,193; over Gorman Creek, both Camden Co.—to R. E. Martin, Cotton States Bldg., Nashville, Tenn., over Dry Fork, $6,916; over Rock Creek, $1,585, both Crawford Co.; over Miller Creek, $2,165; over Carver Creek, $6,712; over Branch, $975, all foreoging Reynolds Co.—to S. J. Cohen & Co., Blytheville, Ark., over Drainage Ditch 19, $2,932; over Drainage Ditch 36, $2,815; over Drainage Ditch 81, $3,008; over Drainage Ditch 1, $4,854, all foregoing Dunklin Co.—to E. L. Markham, Cape Girardeau, over Otter Slough, New Madrid Co. $2,532; over Otter Slough Drainage Ditch, $5,331—to Chernus Constr. Co., 322 Plym Bldg., Minneapolis, Minn., over Creek, $1,076; over Creek, $1,185; over Creek, $2,586; over Otter Creek Overflow, $2,724; over Creek, $456; over Small Creek, $2,439, all Wayne Co.—to J. Kesl & Son, Edwardsville, Ill., over James Creek, $3,210—to Ackley Constr. Co., Kansas City, over Rose Branch, Clay Co., $3,730 — to F. T. O'Dell, Hannibal, over Owl Creek, Ralls Co., $1,601—to Spengler Constr. Co., Sturgeon, over Turners Branch, Adair Co. $755—to Ozark Eng. Co., Joplin, over Little Niangua River, Camden Co. $22,332—to J. M. O'Roark, Anderson, over Elk River, $8,842—to Clinton Bridge Wks., Clinton, La., over Little Niangua River, Camden Co. $32,981—to Vincennes Bridge Co., Vincennes, Ind., over North River, $32,547—to W. D. Knoll, Clinton, over Fork Deer Creek, Bates Co. $3,652. Grand total $317,888. Rejected bids bridges in Cole and Crawford Counties. Noted June 2.

Ohio—O. W. Merrell, dir. hys., Columbus, 45 ft. concrete beam bridge, Sect. "U" Dayton-Chillicothe Rd., Ross Co., to I. P. Core & Son, Rushsylvania, $7,215; 10 ft. span, concrete slab bridge, Sect. "A-1" Fremont-Republic Rd., Adams Co., to John Welsh, Fremont, $1,273. Noted May 26.

Oklahoma—State Hy. Dpt., Oklahoma City, 9 span 162 ft. rein.-con. bridge and 5 span 400 ft. pony truss bridge on concrete piers, both in Carter, Beckham Co., to Boardman & Co., Maple and Hawk Sts., Oklahoma City, $26,133 and $48,062 respectively.

Texas—G. Gilchrist, state hy. engr., Austin, to Dozier Constr. Co., Littlefield Bldg., Austin, rein.-con. bridge Crockett Co., $22,203 est. $25,000; 2 rein.-con. bridges Concho and Menard Counties $28,270 est. $30,000 — 4 rein.-con. bridges Coke Co., $39,679 est. $50,000—to Ragsdale Page, Fort Worth, steel, concrete bridge, Hemphill Co., $21,144 est. $25,000—to Lone Star Constr. Co., P. O. Box 126, Fort Sam Houston Sta., San Antonio, rein.con. bridge, Pecos Co., $42,755 est. $50,000—to J. E. Thompson, San Augustine, bridge, Bell and McLennan Counties, $30,615 est. $40,000. Grand total $184,666. Noted June 2.

Tex., Boca Chica—Boca Chica Bridge Co., c/o J. E. Pate, mgr., Brownsville and Hidalgo, 190 ft. toll bridge, day labor. $125,000. Will purchase materials. Noted Apr. 21.

Va., Richmond—Advisory Bd., curbing, guttering, grading, graveling sections 15 streets, to R. G. Lassiter, Natl. Bank Commerce Bldg., Norfolk, $27,339.

STREETS AND ROADS

BIDS ASKED

California—June 29, by State Hy. Comn., Sacramento, concrete paving 0.6 mi. road between Sierra Point and South San Francisco, San Mateo Co.; asphaltic concrete paving 2.1 mi. road between Rose Canyon and Torrey Pines Reservoir, San Diego Co.

Calif., Salinas—July 5, by C. Y. Joy, clk. Monterey Co., improving San Miguel Rd., 29,800 cu.yd. excav., 5,400 sta. yd. overhaul, 2,000 cu.yd. local rock on road, 15 to 48 in. culverts (to be furnished by county).

Connecticut—June 27, by J. A. Macdonald, hy. comr., Hartford, rolled crushed limestone paving 11,250 ft. hy. Bridgewater—4 in. waterbound macadam paving 14,700 ft. East Granby—loose gravel surfacing 15,134 ft. East Haddam—rolled bank run gravel surfacing 10,600 ft. Killingworth—12,550 ft. Marlboro—12,880 ft. Monroe—16,988 ft. Roxbury—14,450 ft. Southbury—removing old Natchaug River Bridge, and re-erecting part of same at new location in North Windham—rolled screened gravel surfacing 10,990 ft. Litchfield; adv. E. N.-R. June 23.

Ill., Belleville—St. Claire Co. soon takes bids concrete paving 1 mi. Missouri Ave. and 1 mi. Kingshighway. B. C. McCurdy, Belleville, co. engr.

Kansas — June 29, by State Hy. Comn., Olathe, concrete paving 7.687 mi. U. S. Hy., Johnson Co. W. V. Buck, Topeka, engr.

Kansas—June 29, by State Hy. Comn., Olathe, early strength concrete surfacing 0.234 mi. Johnson Co.—bituminous surfacing 13.54 mi. Osage Co.—10.145 mi. Lyon Co.—3.907 mi. Jackson Co.—6.467 mi. Nehama Co.—11.848 mi. Marshall Co.—oiled earth surfacing 6.5 mi. Leavenworth Co.—surface drag treating 1.446 mi. Johnson Co.—rein.-con. shoulders 0.7 mi. Johnson Co.—bituminous surface drag treating 0.8 mi. Wyandotte Co.—3 mi. Johnson Co.—24.979 mi. Jefferson Co.—sand gravel surfacing 6.4 mi. Osage Co.—3 mi. Jefferson Co.—16.65 mi. Jackson Co.—16.8 mi. Marshall Co.—6.85 mi. Nemaha Co.—4.5 mi. Osage Co.—16.5 mi. Wabaunsee Co. W. V. Buck, Topeka, state hy. engr.

Kan., Mound City—See "Contracts Awarded."

Maryland—June 28, by State Roads Comn., G. C. Uhl, chn., Baltimore, concrete shoulders and concrete base 0.25 mi. Contr. B-176-711 Baltimore Co.—sheet asphalt paving 0.25 mi. Contr. B-251-42 Baltimore Co.—0.9 mi. Contr. BC-119-72 Baltimore City—concrete paving 0.42 mi. Contr. P-214-311—macadam paving 0.14 mi. Contr. P-227-311, both Prince George's Co.; adv. E. N.-R. June 23.

Md., Baltimore—June 29, by Bd. Award, concrete paving 12,700 sq.yds. streets listed in Contr. 626. G. Cobb, Municipal Bldg., hys. engr.

Mass., Boston—June 27, by J. A. Rourke, comr. Dpt. P. Wks., City Hall, asphalt paving Dorchester Ave. from Savin Hill Ave. to Charles St.—June 28, asphalt or bitulithic paving Walnut Ave. from Humbolt Ave. to Columbus Ave.—June 29, asphalt or bitulithic paving Peterborough St. to Audubon Rd. $25,000 up.

Michigan—June 28, by A. L. Burridge, div. engr., Cadillac, shaping, concrete paving 7.444 mi. FO35-12C-5, Iosco Co., for State Hy. Comn., Lansing.

Michigan—June 29, by H. W. Hagaman, div. engr., 504 Eddy Bldg., Saginaw, shaping, concrete paving, grading, drainage 3.246 mi. FO56-15, Contrs. 5 and 6, Midland Co., for State Hy. Comn., Lansing.

Michigan—June 29, by H. W. Hagaman, div. engr., 504 Eddy Bldg., Saginaw, shaping, concrete paving 5.499 mi. Contr. FO56-20C-4, Midland Co., for State Hy. Comn., Lansing.

Michigan—June 29, by W. J. Kingscott, div. engr., 309 McNair Bldg., Kalamazoo, grading, shaping, drainage, concrete paving 0.361 mi. MO39-29, Contr. 1, in city of Kalamazoo, Kalamazoo Co., for State Hy. Comn., Lansing.

Michigan—June 30, by H. G. Oakes, div. engr., Plymouth, widening grade and lengthening drainage structures 14.409 mi. FO12-19C-1, Branch Co.; shaping, concrete paving 1.638 mi. FO38-27C-5, Jackson Co., for State Hy. Comn., Lansing.

Minnesota—June 28, by State Hy. Comn., St. Paul, shouldering 10.8 mi. S.P. 2-28, Sect. 1, S.P. 2-34, Div. B—6.5 mi. S.P. 3-61—13.9 mi. S.P. 8-34—14.3 mi. S.P. 14-25, Sect. 1—16.3 mi. S.P. 20-36.

Missouri—July 1, by State Hy. Bd., Jefferson City, improving roads in various counties. T. H. Cutler, state hy. engr.

Mo., Kansas City—Jackson Co., received no bids June 7, concrete widening Ash Avenue and Huttig Ave. Rds. Noted June 2.

Nebraska—June 30, by Dpt. P. Wks., State House, Lincoln, paving 42.7 mi., oiled graveling 165.1 mi., sand graveling 214.8 mi. grading 32.6 mi., one bridge protection work, 23 bridges, culverts, driveway culverts on various roads. R. L. Cochran, state hy. engr.

Neb., Franklin—R. S. Douglas, clk. Franklin Co. rejected bids June 7, graveling 3 mi. Project 6; sand graveling 7 mi. Project 5. Noted May 19.

New Jersey—July 5, by State Hy. Comn., Trenton, 9 in. rein.-con. paving 66,707 sq.yd. Route 26, Sects. 1A, 1B, and 3A, from Trenton to Monmouth Junction Rd., Mercer and Middlesex Counties—granite block paving 5,700 sq.yd. Route 25, Sect. 3, Contr. 65, Jersey City, asphalt block paving Route 25, Connecting Link, Sect. 1, Contr. 66, Jersey City, both Hudson Co. A. L. Grover, ch. clk.; adv. E.N.-R. June 23.

N. J., Frankford—June 28, by Bd. Freeholders Sussex Co., Court House, Newton, grading, graveling or shale surfacing on earth foundation Mattison School House Rd., Sect. 2. $25,000. H. Snook, Newton, co. engr.

N. J., Newton—July 5, by Bd. Freeholders Sussex Co., graveling or shale surfacing 20,750 sq.yd. Swartswood Mt. Benevolence Rd., Stillwater Twp. N. B. Anderson, clk.; adv. E. N.-R. June 23.

N. J., Pitman—June 27, by Mayor and Ci Council, asphalt paving Cedar and Laurel Av $25,000. J. L. Remington, city engr.

New York—July 6, by A. W. Brandt, com Hys., Albany, constructing hys. in Cattaraugu Chautauqua, Monroe and Otsego Counties; r constructing hys. in Erie, Steuben and St Lawrence Counties; adv. E.N.-R. June 23.

New York—July 12, by A. W. Brandt, comr Hys., Albany, constructing roads in Broom Hamilton, Warren, Queens, Nassau, St. Lawrence Counties; also reconstructing roads in Greene and Oneida Counties; adv. E. N.-R June 23.

N. Y., Brooklyn—June 29, by H. Hesterberg pres. Brooklyn Boro, Boro Hall, grading, 3 in asphalt block on concrete paving 41st St.—asphalt resurfacing by heater method 4th Ave.—grading, curbing, flagging Bath Ave., East 11th and East 19th Sts.—grading, curbing, guttering, asphalt on concrete paving Avenues P and V, Lincoln Rd., 15th Ave., President, Sterling, 16th, and 63rd Sts.

N. Y., New York—June 27, by S. Levy, pres. Manhattan Boro, Municipal Bldg., grading, granite block on concrete paving Corlears and 108th Sts.

N. Y., New York—June 30, by S. Levy, pres. Manhattan Boro, Municipal Bldg., asphalt on 6 in. concrete paving, West 163rd, East 16th, 95th, Exterior and 12th Sts.; also intersection of Amsterdam Ave. and 95th St.

N. Y., Utica—Oneida Co., bids in July, 7 in. concrete paving 1 mi. Hart's Hill Rd., Whitestone, $33,000; 15 in. bituminous macadam paving 3.86 mi. Stokes-Westernville County Hy., Western, $74,500. A. O'Brien, Court House, co. engr.

O., Cincinnati—June 28, by J. E. Root, dir. P. Wks., improving Laurel St. approach to new passenger station west of Freeman Ave., incl. widening Freeman Ave. between Hopkins and Kenner Sts., asphalt on concrete surfacing 770 ft. $130,000. Bids will also be taken for new rein.-con. bridge over Cincinnati, Lebanon & Northern Ry., Kennedy Ave., etc.

Oklahoma — June 28, by State Hy. Dpt., Oklahoma City, concrete paving 0.52 mi. U. S. Hy. 66, Beckham Co.—grading, drainage 6.1 mi. U. S. Hy. 70, Carter Co.—concrete slab on 0.53 mi. U. S. Hy. 77, Garvin Co. $75,000. C. L. Wilson, state hy. engr.

Texas—June 30, by G. Gilchrist, state hy. engr., Austin, improving 113.323 mi. hys. various counties, $1,199,000.

Texas—July 1, by G. Gilchrist, state hy. engr., Austin, improving 156.087 mi. hys., various counties, $789,000.

Wash., Kelso—June 28, by Comrs. Cowlitz Co., grading, crushed rock surfacing 3 mi. Lateral Hy. 4. F. Cramer, Kelso, co. engr.

Wash., Mount Vernon—Comrs. Skagit Co. bids about July 6, constructing 3 mi. Burlington Hy. $25,000. R. E. L. Knapp, Mount Vernon, co. engr.

Wisconsin—June 28, by State Hy. Comn. and Outagamie Co. Hy. Comn., Green Bay, crushed gravel or rock surfacing 13,950 cu.yd. Seymour-Shiocton Rd., S.T. Hy. 54, S.A.P. 3473, furnishing 140,000 gal. tar type B, f.o.b. Black Creek; 60,000 gal. f.o.b. Shiocton; and 80,000 gal. f.o.b. Seymour.

Ontario—June 28, by R. M. Smith, deputy minister Dpt. P. Hys., Parliament Bldgs., Toronto, grading, culverts, concrete, mixed macadam and asphaltic concrete paving 53.7 mi. hys., Contrs. 32-19 to 32-33 (inclusive)—Williamsford Bridge, Contr. 32-34—Ekfrid Bridge, Contr. 32-35—bridges north of Arthur, Contr. 32-36. A. A. Smith, Parliament Bldgs., Toronto, ch. engr.

CONTRACTS AWARDED

California—State Hy. Comn., Sacramento, C. H. Purcell, hy. engr., bituminous treated crushed gravel or stone paving 6.9 mi. hy. between Crescent City and Madrona Camp, Del Norte Co., to Mercer-Fraser Co., 2nd and Commercial Sts., Eureka, $58,028—concrete and asphaltic concrete paving, grading 10.6 mi. hy. between San Pablo and Marquinez Bridge, Contra Costa Co., to Basich Bros., 20550 Normandie Ave., Torrance, $322,793—oil and finish shoulders 6.9 mi. between points 2 mi. and 9 mi. north of Salinas, Monterey Co., to Santa Maria Constr. Co., Santa Maria, $6,003—grading, bituminous treated crushed gravel or stone surfacing 0.8 mi. hy. Cottonwood Creek, Siskiyou Co., to Skeels & Graham Co., Box 576, Roseville, $15,984. Grand total $402,808. Noted May 26.

Colorado—State Hy. Dpt. Denver, gravel surfacing 5.381 mi. road east of Steamboat Springs, Federal Aid 138 D, Routt Co., to H. C. Lallier Constr. Co., 1669 Bway., Denver, $109,301.

Conn., Newtown—City, building new roads and retaining walls, grading at Newtown State Asylum, to T. J. Connor, 441 Artic St., Bridgeport. Est. $25,000.

D. C., Wash.—District Comrs., District Bldg., to Corson & Gruman, 33 and K Sts. N.W., bituminous treating streets, $18,960; furnishing bituminous concrete for cold patching $46,060; repairing concrete roadway and alley pavements, $89,577—to McGuire & Rolfe, 101 M St. N.E., repairing asphaltic pavements and concrete bases $207,661—to Easthom Melvin Co., repairing concrete sidewalks $62,148. Grand total $424,406. Noted May 5.

Florida—State Roads Dpt., Tallahassee, B. M. Duncan, state hy. engr., limerock base surface treating 10.4 mi. Project 677-C, Road 13, Levy Co., to L. B. McLeod Constr. Co., Williston, $161,667—clearing, grading, concrete surfacing 2.35 mi. Federal Aid Project 76-C, Road 5,

Streets and Roads (Continued)

Hillsborough Co., to W. L. Cobb Constr. Co., Tampa, $76,649—concrete deck girder bridges over Railway Creek, Hillsborough Co., to Littrell Constr. Co., New Orleans, La., $47,027—3 concrete deck bridges, Project 1013, Rd. 25 Palm Beach Co., to Dudley-Murphy Constr. Co., West Palm Beach, $9,140— creosoted timber bridge, Project 956, Rd. 44, Volusia Co., to Eppinger & Russell Co., Jacksonville, $4,773. Grand total $299,256. Noted June 2.

Idaho—State Hy. Dpt., Boise, grading, crushed rock or graveling surfacing 21.407 mi. Bonner Co., to Western Constr. Co., Pocatello, $46,663—crushed graveling 13.235 mi. Canyon Co., to L. R. Goodrich, Jerome, $5,051—3 concrete bridges in Adams and Idaho Counties, to Gabbey & McNeil, Boise, $26,156. Grand total $77,870.

Ill., Belleville—St. Clair Co., grading, draining 2.99 mi. Route 159, Sect. 129A, 30 ft., to M. Wunderlich Jefferson City, Mo., $113,268.

Ill., Chicago—Cook Co., concrete paving 2,272 sq.yd. Madison Ave., to P. J. Crowley Co., Maywood, $7,872—6,290 sq.yd. 25th St., to Standard Paving Co., 30 North LaSalle St., $17,929—11,548 sq.yd. Arlington Heights Rd., to Suburban Paving & Impvt. Co., 625 North Kedzie Ave., $28,128—61,011 sq.yd. Barrington Rd., to J. Mackler & Son, Chicago Heights, $279,633—65,149 sq.yd. Dalton Ave., to Independent Paving Co., Calumet City, $171,160—23,635 sq.yd. Glenview Rd. and 38,080 sq.yd. Wolf Rd., to Arcole Constr. Co., Miles Center, $101,505 and $173,580 respectively — 8,512 sq.yd. Lake-Cook Rd., to M. Hayes & Son, 209 South LaSalle St., $30,775—47,351 sq.yd. 55th St., to Iroquois Constr. Co., 410 North Michigan Ave., $134,488—143,387 sq.yd. and 5 in. concrete resurfacing 61,600 sq.yd. 111th St., to Bates Constr. Co., 1 North LaSalle St., $310,708. Grand total $1,255,778. All material supplied by County. Rejected bids June 6 concrete paving 8,200 sq.yd. Kimball Ave. Noted June 2.

Ill., Geneva—Bd. Supervs. Kane Co., bituminous surfacing 1.171 mi. Sect. 71-1T-MFT, to E. D. Otto, Downers Grove, $8,110—0.44 mi. Sect. 72-1T-MFT, to Triangle Constr. Co., Kankakee, $2,647—0.276 mi. Sect. 37-1T-MFT, to Atlas Paving Co., Elgin, $2,802—0.349 mi. Sect. 79-1T-MFT, to Geneva Constr. Co., Geneva, $4,312—0.928 mi. Sect. 87-1T-MFT, to C. O'Brien, Morris, $5,290. Grand total $23,161. Noted May 12.

Ia., Pocahontas—Auditor Pocahontas Co., graveling 39 mi. roads, to W. B. Linnan, Pocahontas, $13,264. Noted May 5.

Iowa—State Hy. Comn., Ames, to G. W. Condon 233 Grain Exch. Bldg., Omaha, Neb., grading 2.88 mi. Shelby and Audubon Counties $11,156—to Union Constr. Co., 200 New York Ave., Des Moines, paving 2.561 mi. Buena Vista Co. $36,651; 11.621 mi. Sac and Buena Vista Counties $163,977; 12.174 mi. Wright Co. $161,908—to Booth & Olson, Inc., Sioux City, Ia., 5.877 mi. Winnebago Co. $65,715—to A. Mulvenna, Edgewood, graveling 8.4 mi. Benton Co. $6,216—to Lynch Constr. Co., Des Moines, 13.9 mi. Clinton Co. $10,946; 9.23 mi. Cedar Co. $5,976—to W. T. Kelley, Des Moines, 7.4 mi. Dallas Co. $7,440; 13.2 mi. Marion Co. $24,539; 12.9 mi. Page and Fremont Counties $20,434—to Interstate Constr. Co., Madison, 6.2 mi. Delaware Co. $4,929; 3.7 mi. Jones Co. $2,831; 15.6 mi. Lee Co. $23,681—to Dane Co., Iowa City, crushed stone surfacing 8.2 mi. Poweskiek Co. $10,148—to McCarthy Impvt. Co., Davenport, bituminous treated graveling 3.2 mi. Benton Co. $4,059—to National Constr. Co., 305 Arthur Bldg., Omaha, Neb., 28.7 mi. Boone and Hamilton Counties $10,848; 18 mi. Plymouth Co. $6,804; 11 mi. Plymouth Co. $4,158—to Builders Material Co., Cedar Rapids, aggregate for bituminous-treated gravel 3.2 mi. Benton Co., $4,200—to Clear Lake Sand & Gravel Co., Clear Lake, 1.23 mi. Cerro Gordo Co. $1,000—to J. H. Hartsell, Early, 18 mi. Plymouth Co. $13,230—to E. B. Spencer Constr. Co., Waterloo, 10 culverts, extensions in Buena Vista Co. $1,280; 46 culverts Sac and Buena Vista Counties $8,785—to C. A. Holvik, Mason City, 1 box culvert Cerro Gordo Co., $1,291—to C. R. Yegge, Boone, 35 culverts Ida Co. $6,300—to Duvall & McKinney, Logan, in Shelby and Aubudon Counties, 9 culverts, $4,045—to C. Jensen, Thompson, 9 culverts, Wright Co. $790. Grand total $623,337.

Ia., Anamosa—Jones Co., surfacing roads, to Lanning & Fulkerson, Marion, $11,744; to Robert Meade, Center Junction, $2,940; to P. F. Taylor, Monticello, $350; to W. M. Willis, Marion, $113. Grand total $15,147.

Ia., Clarinda—At office Auditor Page Co., grading 6.8 mi. trunk roads, incl. 161,323 cu.yd. excav., 500 cu.yd. loose rock, 147,950 sta.yd. overhaul, to Clyde W. Drew Co., 929 City Natl. Bank Bldg., Omaha, Neb., $17,534; 3 box culverts, to W. E. Carlson, Essex, $1,563. Noted May 12.

Ia., Fort Dodge—Webster Co., graveling road, to Paul & Donnelly, Fort Dodge, $42,308.

Ia., Garner—At office Auditor Hancock Co., gravel surfacing hys., to E. S. Hatten, Britt, $14,825—to C. E. Van Fries, Leland, $1,920—to L. G. Wilson, Woden, $1,050—to G. Niemeier, Garner, $740—to J. C. Sheets, Britt, $600—to Quentis & Sullivan, Garner, $946—to L. Jorgenson, Garner, $565—to E. L. Reis, Forest City, $450. Grand total $21,096.

Ia., Grundy Center—At office Auditor Grundy Co., gravel surfacing 39 mi. roads, incl. crushing, loading, hauling 35,600 cu.yd. gravel, 327,000 units overhaul, alternate 5,400 cu.yd. Class A gravel or 4,800 cu.yd. Class A rock surfacing 6 mi. roads, to H. N. McCoy, Waterloo, $18,488; and to R. Cook, Nevada, $3,960. Noted May 12.

Ia., Lemars — Plymouth Co., grading 6.05 mi. County Trunk Rd., to Clark Constr. Co., Merrill, $14,795; 20 box and 7 pipe culverts, two I-beam bridges, to Christensen Bros., Sioux City, $14,920.

Ia., Mason City—Cerro Gordo Co., graveling 73 mi. roads, to Beu & Sons, Summer, $32,071.

Kansas—State Hy. Comn., Court House, Columbus, to Thogmartin-Reis Constr. Co., Fort Scott, E and C, bituminous retread surfacing 4.292 mi. P.73W-12, 13-FA19-AB Allen Co., $31,085; bituminous retread surfacing 0.747 mi. P.73W-12B-K1358, (alternate No. 1), $3,793; bituminous surface drag treating 1 mi. P.73E-14-7636, $845; 7 mi. P.73E-13-7635, $5,578, all foregoing Bourbon Co. to George Ross Asphalt Co., Kansas City, Mo., 1.5 mi. P.39-4-7533, Neosho Co., $6,120—to Independent Constr. Co., Pittsburg, concrete paving 3.882 mi. P-166-17-FA299-C, Cherokee Co., $84,804—to Maxwell Constr. Co., Columbus, 0.236 mi. bridge approaches P.7-2-FA403-B, Cherokee Co., $1,643; Bridge No. 1, P.7-2-FA403-B, Cherokee Co., $3,030—to M. W. Watson, Mulvane Bldg., Topeka, bituminous retread surfacing 8.153 mi. P.16-2-FA37-CDE, Montgomery Co., $36,361. Grand total $173,259. Rejected bids E and S paving 1.453 mi. P.73W-16-FA60A and bridge same project, Anderson Co. Noted May 19.

Kansas—State Hy. Comn., Salina, to D. G. Hansen, Logan, sand gravel surfacing 5.5 mi. P.28-6-7654, $2,079; 10.5 mi. P.36-16-7655, $3,969; 5 mi. P.36-17-7656, $1,890; 2 mi. P.36-18A-7657, $756; 2.5 mi. P.36-18B-7658, $945; 1.3 mi. P.36-19-7653, $491; 8 mi. P.14-22-7661, $3,168; 8.2 mi. P.14-23-7662, $3,247, all foregoing Jewell Co.; 11.9 mi. P.81-25-7652, $3,927; 3 mi. P.36-20-7665, $930; 15.2 mi. P.36-21-7666, $4,712, all foregoing Republic Co.; 1 mi. P.40N-18-7663, $396; 7 mi. P.14-21-7684, $2,772, all foregoing in Mitchell Co.—to Louis Block, Vesper, limestone gravel surfacing 12.5 mi. P.18-8-7642, Lincoln Co., $1,400—to Cook & Cone, Ottawa, sand gravel surfacing 2 mi. P.50S-25-7650, $788; 7.9 mi. P.77-12-7668, $3,255, both Marion Co.; 4.6 mi. P.50N-25-7660, $3,491; 18 mi. P.50N-25-7660, $9,108; 6.637 mi. P.50N-26-7659, $4,832, all foregoing Morris Co.; road mixed method bituminous surfacing 1.504 mi. P.-81-16-FA44-A, $3,439; 1.989 mi. P.81-16-FA69A, $4,585; 5.002 mi. P.81-14-FA296-A, $11,542; 3.746 mi. P.81-16-FA44-BE, $8,557; 3.009 mi. P.81-15-FA45-DE, $6,935; 0.181 mi. P.81-16-FA44-C $445; 4.006 mi. P.81-15-FA45-C, $9,232; 0.136 mi. P.81-15-K1362, $442, all foregoing Saline Co., 1.736 mi. P.81-17-FA254-B, Ottawa Co., $3,886; 0.208 mi. P.15-15-K-1363, Dickinson Co., $480; 3.526 mi. P.81-17-FA254-A, $8,095. Grand total $109,794.

Kansas—State Hy. Comn., Wellington, to B. Metzger, Ozawkie, sand gravel surfacing 11 mi. P.19-2-7585, $1,760; 7 mi. P.1-8-7589 $1,540; both Pawnee Co.; 3.25 mi. P.19-1-7584 $683; 10 mi. P.1-7-7588, $1,740; 8 mi. P.49-5-7595 Sumner Co., $2,560; 1 mi. P.49-6-7587, Sedgwick Co., $294; 5 mi. P.42-7-7620, Sedgwick Co., $1,400; 17 mi. P.96-13-7597 Barton Co., $3,128 to M. W. Watson, Topeka, 14 mi. P.1-3-7623 Kiowa Co., $3,388; 4 mi. P.1-12B-7590, $1,032; 15 mi. P.96-11-7591 $4,170; 6 mi. P.4-1A-7586, $1,512; 11.5 mi. P.1-13-7605, $2,162 all foregoing in Rush Co.—to H. L. Wilcox, Anthony, 12 mi. P.44-5-7600, $2,760; 3.5 mi. P. 14-3-7634, $854, both Harper Co.; 4 mi. P.14-4-7633, $920; 7 mi. P.14-5-7632, $1,820, North Kingman Co.—11.5 mi. P.44-6-7599, Sumner Co., $4,025—to L. C. House, Bentley, 10.5 mi. P.81-9-7622, $3,087; 5.5 mi. P.50S-24-7644, $1,925, both Harvey Co.—to D. G. Hansen, Logan, 8 mi. P.15-11-7601, Harvey Co., $2,432; 7 mi. P.49-2-7598, Sumner Co., $2,870; 7.5 mi. P.49-3-7596, $2,925, both Sumner Co.—to Roberts Constr. Co., Wichita, 12 mi. P.160-28-7602, Sumner Co., $2,688; 11.5 mi. P.160-30-7604, $2,645; 9 mi. P.160-29-7603 $2,016, both Cowley Co.—to San-Ore Constr. Co., McPherson, 2.5 mi. P.4-7-7582, $510; 1.25 mi. P.51-1-7606, $255, 16.5 mi. P.50N-16-7592, $3,366; 1 mi. P.14-13B-7593, $204; 9 mi. P.14-13A-7594, $1,836 all foregoing in Rice Co.—to Yant Constr. Co., 1146 Omaha Natl. Bank Bldg., Omaha, Neb., bituminous surfacing 9.5 mi. P.8-12-7645, Barton Co., $16,576—to E. W. King, Hesston, Bridge No. 2, P.55-1-FA235B, Sumner Co., $9,430—to Tomlinson Bridge & Supply Co., Garfield, Bridge No. 3, P.55-1-FA235B, Sumner Co., $50,693. Grand total $139,206. Rejected bids sand gravel surfacing 6 mi. K7621, Reno Co. Noted May 19.

Kan., Salina—Improving streets under Paving Job 71, incl. 11,030 sq.yd. 6 in. rein.-con., 348 sq.yd. 3 in. brick on 6 in. concrete base, 550 sq.yd. 3 in. brick on 5 in. rein.-con. base curbing, guttering, to H. J. Taylor Constr. Co., Salina, $34,217.

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, concrete paving 1 mi. Contr. Co.—76-22, Caroline Co., to Philips Bros., Salisbury $10,581. Noted June 2.

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, sheet asphalt paving 0.79 mi. hy. Contr. BC-118-72, Baltimore City, to Baltimore Asphalt Block & Tile Co., 1320 North Monroe St., Baltimore, $29,270; concrete paving 1.14 mi. Contr. Wo-119-14, Worcester Co., to Phillips Bros., Salisbury, $14,973. Noted June 2.

Massachusetts—Dpt. P. Wks., State House, Boston, asphalt on rein.-con. surfacing Fall River Sect., incl. Brightman St. Bridge, to H. C. Hanson, 49 Pond St., Jamaica Plain—paving hy. in Stoneham Sect., to M. McDonough, 821 Bway., Saugus—hy. in Hancock Sect., to D. J. Walsh, 184 North St., Pittsfield.

Mass., Boston—City, Dpt. P. Wks., laying 4,000 yd. granite block pavement on Park, Common and Adams Sts., to Tufo & Yebba, Inc., 269 Hyde Park Ave., Jamaica Plain, $9,110.

Mass., Melrose—At office of Mayor, City Hall, rein.-con. driveways, walks, incl. pile founds., New Melrose High School, to J. J. Brock, 123 Cambridge St., Charlestown, $14,500. Noted May 19.

Mass., Quincy—Metropolitan Dist. Comn., 20 Somerset St., Boston, bituminous macadam paving 5,300 ft. Chickatawbut Rd., to A. G. Tomasello & Son, 250 Stuart St., Boston.

Missouri—State Hy. Bd., Jefferson City, to Rock Hill Asphalt & Constr. Co., 1210 North Rockhill Rd., St. Louis, mixed plant retread paving 0.489 mi. road from Meadville to Spur, $3,011; 1.563 mi. Bucklin to Spur, $9,688; 2.623 mi. from Linneus, north and south, $15,263, all foregoing Linn Co.; 0.551 mi. Livingston Co. $3,385; 0.699 mi. Macon Co. $4,378; 8.7 mi. Dunklin Co. $5,344—to Massman Constr. Co., 519 American Bank Bldg., Kansas City, crushed stone paving 0.644 mi. Johnson Co. $5,621—to Nevada Constr. Co., Nevada, 0.573 mi. Lafayette Co. $273—to W. D. Knoll, Clinton, 4.545 mi road from Adrain to Henry County Line, Sect. 1, $11,969; 3.977 mi. Sect. 2 same road $10,360; 4.545 mi. Sect. 3 same road $12,448 3.892 mi. same road, Sect. 4, $7,073, all foregoing Bates Co.—to J. L. Pohl, Nevada, 4.103 mi. Caldwell Co. $15,277; 3.485 mi. Hardin to Brayman, Sect. 3, $15,731; 3.219 mi. Sect. 4 same road, $13,094; 3.404 mi. Sect. 5 same road, $14,244, all foregoing Ray Co.—to P. L. Murphy, Moberly, 3.266 mi. Salisbury North Rd., Sect. 3 $5,843; 2.998 mi. Sect. 4 same road, $5,209, both Chariton Co.—to L. W. Spengler Constr. Co., Sturgeon, graveling 3.974 mi. Adair Co., $10,314—to G. W. Condon Co., 233 Grain Exch. Bldg., Omaha, Neb., 0.649 mi. Sullivan Co. $7,683—to R. E. Martin, Cotton States Bldg., Nashville, Tenn., 3.563 mi. Cherryville-Davisville Rd., Sect. 1, $16,351; 3.51 mi. same road Sect. 2, $17,430, both Crawford Co.; 2.547 mi. Glover-Reyonlds County Rd., Sect. 17, $29,381, 2.739 mi. Sect. 18, same road $21,422, both Iron Co.—to Kiefner & Geile Constr. Co., Perryville, 4.506 mi. Stoddard Co. $15,451; 3.907 mi. Perryville-South Rd., Sect. 6, $18,108; 3.387 mi. Sect. 7, $18,616; 4.389 mi. Sect. 8, $21,289, 3.84 mi. Perryville-Biehle Rd., Sect. 2, $6,721; 2.054 mi. same road Sect. 3, $3,831, all foregoing Perry Co.—to L. Gray, St. Louis, 2.54 mi. Viburnum-Route 32 Rd., Sect. 1, $4,855; 2.813 mi. same road Sect. 2, $5,268—to F. O'Dell, Hannibal, 4.994 mi. Center-North Rd., Sect. 1, $14,729; 1.593 mi. Sect. 2 same road $5,609, both Ralls Co.; 2.7 mi. Route 40-New Truxton Rd., Sect. 1, Warren Co. $6,100; 2.91 same road Sect. 2 $8,017—to E. L. Markham, Cape Girardeau, 4.28 mi. Morehouse-South Rd., Sect. 1 $11,592; 2.843 mi. Sect. 2 same road $7,027; 2.47 mi. Scott Co. $15,784—to M. E. Gilloz, Monett, 3.743 mi. Tuscumbia-Iberia Rd., Sect. 8, Iberia Co. $18,454; 3.489 mi. same road Sect. 9, $23,384—to H. H. Ruddell, Springfield, 4.932 mi. Wayne County-Poplar Bluff Rd., Sect. 22, $35,600; 4.818 mi. Sect. 23, same road $29,002, both Wayne Co.; 3.933 mi. Camden Co. $48,007; to 4.092 mi. Lincoln-Henry County Rd., Sect. 1, $7,341; 3.492 mi. Sect. 2 same road $8,650; 2.973 mi. Greene Co. $8,252—to R. G. Aldridge Constr. Co., 1310 State Ave., Kansas City, Kan., 0.622 mi. Sect. 1 Carroll Co. $3,249; 4.071 mi. Sect. 2, $12,002—to J. Kesl & Sons, Edwardsville, Ill., 4.409 mi. Shelbyville-Palmyra Rd., Sect. 6, $11,810; 4.527 mi. Sect. 7 $12,990; 4.465 mi. Sect. 8, $36,057; grading, concrete paving 1.879 mi. Oakwood-Hannibal Rd., $29,025, all foregoing Marion Co.—to Chernus Constr. Co., 322 Plyn Bldg., Minneapolis, Minn., 0.228 mi. Williamsville-Route 67 Rd., $2,420; 0.178 mi. Sect. 5, $3,155, both Wayne Co.—to S. J. Cohen & Co, Blytheville, Ark., 0.322 mi. Dunklin Co. $3,113—to Harrison Eng. & Constr. Corp., 506 Mutual Bldg., Kansas City, 1.542 mi. Howard Co. $22,280—to Ackley Constr. Co., Kansas City, 3.882 mi. Clay Co. $22,876—to Amyx & Mitchell, Bakersfield, rock and graveling 1.976 mi. Dallas Co. $4,728—to Garrett Constr. Co., Springfield, 2.215 mi. Greene Co. $15,489—to J. M. Roark, Anderson, 2.895 mi. McDonald Co. $13,980—to Asphalt Paving Co. of St. Louis, 1328 Sublette Ave., St. Louis, 18 in. asphalt concrete surfacing 0.909 mi. Macon Co. $17,091—to R. Newtown McDowell, Inc., Kansas City, 4.722 mi. Barton Co. $6,418. Grand total $819,253. Rejected bids June 7, improving roads in Washington, Cole, Crawford, Jefferson, and Franklin Counties. Noted June 2.

New Jersey—State Hy. Comn., Trenton, grading, rein.-con. paving 51,561 sq.yd. Camden and Gloucester Counties, to F. A. Canuso & Co., 804 South 12th St., Phila., Pa., $199,472. Noted June 2.

New Jersey—State Hy. Comn., Trenton, grading, rein.-con. paving 5.391 mi. Route 42, Sect. 8, 1A and 2A, Gloucester Co., to S. J. Groves & Sons Co., Ridgefield, $306,416. Noted May 26.

New York—A. W. Brandt, comr. Hys., Albany, graveling and concrete paving 8.8 mi. Steuben Co., C. P. Ward, Inc., 135 Ridge Rd. E., Rochester, $252,093—graveling, grading 1.66 mi. Albany Co., to M. T. Ingraham, Inc., Albany, $131,680—8.31 mi. Wyoming Co., to G. H. Bliven, 16 Main St., Rochester, $114,497—bituminous macadam paving 7.31 mi. Cayuga Co., to Bero Eng. & Constr. Corp., North Tonawanda, $147,401—8.73 mi. Montgomery Co. and concrete paving 6.79 mi. Dutchess Co., to Lane Const. Corp., 39 Colony St., Meriden.

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Streets and Roads (Continued)

Bridge, to Arundel Corp., Pratt St., Baltimore. Conn., $196,464 and $248,627 respectively—4.06 mi. Cayuga Co., to Peckham Road Corp., White Plans, $77,962—concrete paving 5.85 mi. Livingston Co., to Warren Bros. Road Co., Cambridge, Mass., $194,805—8.94 mi. Chemung and Schuyler Counties to Bolton, Suits, Bolton & Gibbs, Watkins Glen, $263,977—7.72 mi. Orleans Co., to H. W. Patterson, Ellicott Sq., Buffalo, $216,306—5.21 mi. St. Lawrence Co., to Callahan Constr. Co., Inc., Auburn, $147,494—0.38 mi. Suffolk Co., to Johnson, Drake & Piper, Inc., Freeport, $29,286—6.91 mi. Chemung Co., to Roberts Paving Co., Salisbury, Md., $328,291—bridges in Catteraugus Co. to C. G. Stewart, Buffalo, $60,939—Orange Co., to Diel Bros., Newburgh $70,913. Grand total $2,480,739. Noted Apr. 14 and May 12.

N. Y., Brooklyn—H. Hesterberg, pres. Brooklyn Boro, Boro Hall, to J. D. McCoy Asphalt Co., Avenue U and East 57th St., paving East 27th St. $4,314; East 57th St., $5,814; 50th St., $3,199. Grand total $13,327. Noted Mar. 31.

N. Y., Brooklyn—H. Hesterberg, pres. Brooklyn Boro, Boro Hall, to Concrete Co., Metropolitan Ave., regulating Rockway Parkway $10,244; Voorhies Ave. $1,804—to B. Turecamo, New Cropsey Lane, asphalt paving Ashford St. $3,734; Christopher St. $5,774; East 32nd St. $10,384; East 48th St. $4,288; Essex St. $9,527; St. Johns Pl. $14,839 to Cranford Co., 52-9th St., Bradford St. $6,364—to Highway Impvt. & Repair Co., Furmans Island, Devoe St. $22,658—to Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., East 36th St. $10,140; Grand Ave. $7,735; Willow St. $18,404; 56th St. $13,604—to Downs & Downs, 10007 4th Ave., grading Manor Court, $810—to E. T. Barry, 126-06 139th Ave., Laurelton, granite block paving South 6th St. $17,508. Grand total $157,817. Noted May 26.

N. Y., Brooklyn — H. Hesterberg, pres. Brooklyn Boro, Boro Hall, to A. Suriano, foot 24th Ave., regulating Bedford Ave. $10,116; Shepherd Ave. $1,237—to Concrete Co., Metropolitan Ave., Kenmore Pl. $2,445—to D. J. McCoy, Avenue U and East 57th St., asphalt paving East 34th St. $10,767; West 12th St. $11,843—to Brass & Gorker Contg. Co., East 141st St., New York, regulating Pine St. $3,636—to B. Turecamo, New Cropsey Lane, asphalt paving Avenue D $13,946; Elmore Pl. $7,108; Parkside Ave. $6,781; Prospect Pl. $8,918—to Brooklyn Alcatraz Asphalt Co., 407 Hamliton Ave., Degraw St. $8,171; 14th St. $8,169—to Carblock Paving Co., Stagg St., Jefferson Ave., $9,067; Keap St., $16,628—to Leonard Paving Co., 233 Bway., New York, granite paving Water St., $34,340. Grand total $153,171. Noted May 19.

N. Y., New York—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Ave., to C. D. Beckwith, Inc., sheet asphalt repaving Belmont Ave., $16,449; asphalt block repaving East 178th St. $36,984; East 178th St. $49,379—to Meehan Paving & Constr. Co., 90 West St., granite block repaving Webster Ave. $276,646—to St. George Paving Co., 415 Lexington Ave., Southern Blvd. $101,006. Grand total $480,464. Noted May 19.

N. Y., New York—S. Levy, pres. Manhattan Boro, Municipal Bldg., sidewalks and curbs during year 1932, to F. Mascali & Son, 645 East Tremont Ave., $41,050; 1,000 lin. ft. 6 in. granite corner curb (cut to 12 ft., radius), to Merit Supply Co., $1,530. Noted May 12.

N. Y., New York—S. Levy, pres. Manattan Boro, Municipal Bldg., granite block paving Avenue D and West 26th St., to Leonard Paving Co., 60 East 42nd St., $21,454 and $19,738 respectively—asphalt paving West 196th St., to Venetian Contg. Co., East Bay Ave. and Tiffany St., $5,533—granite block paving Bway., to E. T. Barry, 1260-06 139th Ave., Laurelton, $4,205. Grand total $50,929. Noted Apr. 28.

N. Y., New York—S. Levy, pres Manhattan Boro, Municipal Bldg., relaying sidewalks and curbs when and where directed during 1932, Manhattan Boro, to Brass Gorker, $5,685. Noted May 12.

North Carolina—State Hy. Comn., Raleigh, L. R. Ames, engr., surface treating 17.3 mi. Project 4014, Route 90, Durham Co., to Kiker & Yount, Reidsville, $33,825; clearing, grubbing, grading 3.97 mi. Project 280, Robeson Co., to F. J. McGuire, Washington, $12,083. Noted May 26.

Ohio—O. W. Merrell, dir. hys., Columbus, grading, draining, bituminous macadam paving 2.645 mi. Ashtabula Co., to Cleveland Trinidad Paving Co., 700 Western Reserve Bldg., Cleveland, $109,828—concrete paving 7.652 mi. Miami and Shelby Counties, to J. Wroe, 668 Dayton Industries Bldg., Dayton, $153,770—rein.-con. paving 2.97 mi. Wood Co., to G. L. La Boiteaux, Box 91, West Toledo Station, Toledo, $256,868. Grand total $520,466. Noted May 26.

O., Wellsville — Columbiana Co. (Lisbon), concrete paving Clark Ave. from 17th to 25th Sts., to M. Grein & Sons, Youngstown, $43,360.

Oklahoma—State Hy. Dpt., Oklahoma City, grading, draining 7.693 mi. State Hy. 58, Major Co., to G. E. Keck, Fairview, $20,248, est. $25,000; grading, paving 0.51 mi. State Hy., 66, Custer Co. to Park & Co., 808 East 17th St., Oklahoma City, $19,155 est. $25,000.

Pennsylvania — State Hy. Dpt., Harrisburg, concrete paving 7,779 sq.yd. T Route 138, Otto Twp., McKean Co., to Welsh Constr. Co., 2331 Los Angeles Ave., Pittsburgh, $28,440—3,076 sq.yd. Route 153, Sect. 5, Sellersville Boro, Bucks Co., to Dalton Bros., Inc., Paoli, $9,119—56,190 sq.yd. Route 465, Pine Grove Boro, Pine Grove and Tremont Twps., Schuylkill Co., to Union Paving Co., 1626 Arch St., Phila., $111,355—macadam paving 133,830 sq.yd. Wayne Co., to York Eng. & Constr. Co., York, $180,887—single span through truss bridge, Route 603, Bratton Twp., Mifflin Co., to Minotte Bros., House Bldg., Pittsburgh, $12,455—5 span I-beam bridge, Route 213, Greenwood and Union Twps., Crawford Co., to Ortale Contg. Co., Union Trust Bldg., Pittsburgh, $28,754. Grand total $371,010. Noted May 10.

Texas—G. Gilchrist, state hy, engr., Austin, to Brown & Root, Inc., Colorado St., Austin, double bituminous on crusher-run caliche base course surface treating 10.678 mi. hy. Kerr Co., $22,407 est. $32,000; grading, small drainage structures 13.305 mi. Bell and McLennan Counties, $50,038 est. $56,000; 9.406 mi. Pecos Co., $45,019 est. $52,000—to G. F. Davis, Rule, 13.528 mi. Coke Co., $33,647 est. $42,000—to W. W. Vann & Co., Mercedes, 8.307 mi. Brewster Co., $53,100 est. $52,000; 13.031 mi. Pecos Co., $44,952 est. $48,000—J. H. Pate, McAllen, 10.821 mi. Calhoun Co., $25,006 est. $26,000—to J. P. Foty, 807 Burt Bldg., Dallas, 10.877 mi. Comal Co., $53,852 est. $60,000—to E. F. Bucy & Son and C. T. Childs, Rising Star, 9.406 mi. Concho and Menard Counties, $28,089 est. $44,000—to J. S. Wade & Son, Coleman, 9.13 mi. Crockett Co., $34,841 est. $36,000—to C. E. Armstrong & Son, Pecos, 13.898 mi. Reeves and Culberson Counties, $32,785 est. $42,000—13.693 mi. Hemphill Co., to W. Lott, Amarillo, $33,071 est. $48,000 — to F. P. McElwrath Constr. Co., Corsicana, concrete paving 8.792 mi. Navarro Co., $138,794 est. $160,000; 14.484 mi. McLennan Co., $217,424 est. $240,000—to Public Constr. Co., Denton, triple asphalt surface treating and iron ore top soil shoulders 7.308 mi. Cherokee Co., $29,940 est. $30,000 — Cocke & Braden, Marshall, caliche base course surfacing 16.925 mi. Goliad Co., $30,870 est. $36,000. Grand total $873,835. Noted June 2.

Wisconsin—State Hy. Comn., and Columbia Co., Madison widening approaches to Mississippi River Bridge, LaCrosse Co., to T. J. Molzakn & Sons, LaCrosse, $3,825—crushed stone surfacing in Greenwood and Hillsboro, to E. Muller, LaFarge, $6,729—Milwaukee-Jefferson-Madison Rd., Dane and Jefferson Counties, to J. O. Legreid, Stoughton, $95,681—constructing Fox River Bridge, Columbia Co., to T. J. Vitcenda, Madison, $8,119—Bay Shore Grade Separation, Milwaukee Co., to Froemming Bros., 2058 Green Bay Ave., Milwaukee, $9,341. Grand total $123,695. Noted May 12.

Wis., Milwaukee—Dpt. P. Wks., City Hall, to Gumz & Switalski, 2065 South 18th St., improving alley between West Courtland and West Hampton Sts. $1,652; West Cleveland Ave. $1,418; North 28th St. $1,694; South 61st St. $2,795; North Stark Ave. $290; West Eggert Pl. $2,037—to Black Constr. Co., 2518 North 38th St., North 82nd St., $3,760; North 52nd St. $2,442; North 7th Lane, $1,275 North 40th St. $20,109. Grand total $37,472.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

N. Y., Syracuse — Onondaga Co. Parks & Reginal Planning Board, M. E. Higgins, engr. in charge dredging and reclaiming Onondaga Lake. $100,000.

CONTRACTS AWARDED

Ill., East St. Louis—East Side Levee & Sanitary Dist., J. D. Johns, pres., 217 Metropolitan Bldg., completing west levee Project 12, Millstadt Rd., in Centreville Twp., to Keeley Bros. Contg. Co., 4200 State St. Est. $90,000. Noted Feb. 23.

Massachusetts—Commonwealth of Massachusetts, Dpt. P. Wks., State House, Boston, F. E. Lyman, comr., dredging 90,000 cu.yd. in Boston Inner Harbor and 10,000 cu.yd. in Tenean Creek, Dorchester, to Bay State Dredging & Contg. Co., 62 Condor St., East Boston, $38,500 and $4,820 respectively; 900 ft. creosoted timber bulkhead, Hyannis Harbor, to Thos. Whalen & Son, Inc., 54 Dover St., Whitman, $10,710. Grand total $54,030.

FEDERAL GOVERNMENT

PROPOSED WORK

Conn., New London—ELEVATOR SHAFTS, etc.—Spec. 6910—Yards & Docks, Navy Dpt., Wash., D. C., 2 steel frame elevator shafts and 2 elevators, one each at Naval Operating Base here and one at Pearl Harbor, T. H.

Fla., Daytona Beach—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., rejected bids U. S. Post Office. Will readvertise. Noted Apr. 28.

N. Y., Glen Cove—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to J. Garry, 300 Madison Ave., New York. Contractor soon lets contract 125 tons steel and other materials. Noted May 19.

N. Y., East Rockaway—JETTY—U. S. Eng., Whitehall Bldg., New York, bids late in July, 120,000 tons stone for East Jetty. Noted Mar. 17, under "New York."

N. Y., New York—PLUMBING—Treas. Dpt. at office Sup. Archt., Wash., D. C., will readvertise plumbing repairs at Custom House. Contractor declined contract because of labor conditions.

Texas — WATERWAY IMPROVEMENT — House Rivers & Harbors Com., tentatively adopted $260,000 improvement at Sabine-Neches Waterway, and $226,500 Freeport Harbor Improvement.

BIDS ASKED

Ala., Montgomery — STREET LIGHTING SYSTEM—June 30, by Treas. Dpt. at office Sup. Archt., Wash., D. C., street lighting system for field. $12,000 appropriated.

Arkansas—EARTHWORK—June 28, by U. S. Eng., P. O. Box 667, Vicksburg, Miss., constructing 62,250 cu.yd. earthwork on left and right banks Red River in Orton and Garland Dists.

Florida—LEVEE and CHANNEL—July 15 by U. S. Eng., Jacksonville, constructing 65,000 lin.ft. levee and navigation channel along south and east shore Lake Okeechobee, incl. removal from navigation channel and placing on levee 4,860,000 cu.yd. material and placing 55,000 cu.yd. riprap along berm; adv. E. N.-R. June 23 Noted May 19.

Ga., Savannah—BULKHEAD—June 27, by U. S. Eng., 550 ft. steel sheet pile bulkhead on Hutchinson Island.

Illinois—LEVEE—June 30, by U. S. Eng., St. Louis, Mo., placing 1,150,000 cu.yd. earthwork in rebuilding and enlarging levee of Valley City Drainage and Levee Dist., Pike Co.; adv. E. N.-R. June 23.

Ill., Rock Island—LOCK OPERATING MACHINERY—Aug. 3, by U. S. Eng., furnishing supplying, assembling and installing ready for operation and necessary concrete foundations lock operating machinery for 2 parallel locks power house equipment, electric power and control system, Lock and Dam 15, Mississippi River Former bids rejected; adv. E. N.-R. June 23 Noted May 19.

Kan., Manhattan—POST OFFICE—July 7, by Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing U. S. Post Office; adv. E.N.-R. June 23. Noted Apr. 14.

La., Shreveport—GARAGES—July 7, by Con. Q.M., Barksdale Field, constructing certain garages at Barksdale Field. Former bids rejected adv. E. N.-R. June 23. Noted May 12.

La., Shreveport—STANDPIPE—June 30 (extended date), by Con. Q.M., Barksdale Field 530,000 gal. steel standpipe at Barksdale Field Noted May 26.

Mich., Port Huron—DREDGING—July 15, by U. S. Eng., Detroit, dredging 1,767,000 cu.yd. in channel, at foot Lake Huron, near here; adv. E. N.-R. June 23.

N. J., Jersey City—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about June 30, general contract remodeling and extending 3 story, basement, brick, steel, Montgomery and York Sts. $500,000. W. Neuman & Sons, 26 Journal Sq., archts. Noted Mar. 24.

N. Y., Dansville—POST OFFICE—July 8, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office; adv. E.N.-R. June 23. Noted Jan. 14.

New York—DREDGING—July 15, by U. S. Eng., Army Bldg., Whitehall St., New York dredging 34,000 cu.yd. natural other than ledge rock and removing 12,950 cu.yd. ledge rock in East River and Newtown Creek; adv. E.N.-R. June 23. Noted June 9.

N. Y., Rouses Point—INSPECTION STATION—July 15, by Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing inspection station Former bid rejected; adv. E.N.-R. June 23 Noted May 19.

O., Fostoria—POST OFFICE—July 12, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office; adv. E.N.-R. June 23. Noted Mar. 31.

O., Painesville—POST OFFICE—July 22, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office; adv. E. N.-R. June 23.

Tenn., Memphis — MATTRESS LUMBER — June 28, by U. S. Eng., P. O. Box 97, 858,000 ft. B.M. mattress lumber.

Virginia—DREDGING—July 15, by U. S. Eng., Norfolk, 1,120,000 cu.yd. material in Dismal Swamp Canal, Virginia and North Carolina; adv. E. N.-R. June 23. Noted May 12.

Canal Zone—QUARTERS, etc.—Aug. 15 (extended date), at office Con. Q.M., Quarry Heights, 14 officers quarters; 2 four-family N.C.O. quarters; 1 battalion barracks, incl. garages, utilities and widening Gaillard Hy. and moving officers club and garages for 2nd Field Artillery Post, Fort Clayton. Noted May 12.

BID RECEIVED

Nev., Las Vegas — OUTLET PIPES—Bureau Reclamation, Denver, Colo., June 15, furnishing, installing outlet pipes for Hoover Dam, Boulder Canyon Project, Arizona-California-Nevada, from Babcock & Wilcox, Barberton, O., $9,270,000. Noted Apr. 21.

CONTRACTS AWARDED

Calif., Merced—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to North-Moller Co., Jackson, Mich., $98,340. Noted Apr. 28.

Conn., Stamford—DREDGING—U. S. Eng., Providence, R. I., 150,000 cu.yd., to Bridgeport Dredging & Dock Co., 1024 Main St., $26,595.

Delaware and Maryland—DREDGING, etc.—U. S. Eng., Wilmington, Del., 107,000 cu.yd. Chesapeake and Delaware Canal, at Summit bridge, to Arundel Corp., Pratt St. Baltimore.

Federal Government (Continued)

Md., at 12.4c. per cu.yd. place measurement; also boardwalk, to S. D. Collins, Port Penn, Del., at 40c. per lin.ft. total $7,829. Noted Apr. 28.

D. C., Wash.—OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Dpt. Labor and Interstate Commerce Commission Building and connecting wings, to James Stewart, 230 Park Ave., New York, $9,081,000. Former contract rescinded. Noted June 9, under "Contracts Awarded."

Fla., Palm Beach—POST OFFICE—Treas. Dpt at office Sup. Archt., Wash., D. C., brick U. S. Post Office, to Rohan Co., Garden City, N. Y., $227,800. Noted May 12.

Indiana—DREDGING—U. S. Eng., Chicago, Ill., 383,000 cu.yd. from Indiana Harbor, to Great Lakes Dredge & Dock Co., 104 South Michigan Blvd., Chicago, Ill., $68,940. Noted May 12.

Ill., Joliet—HEAD GATE—U. S. Eng., 333 North Michigan Ave., Chicago, Ill., altering head gate, appurtenant work at Brandon Road Dam, Des Plaines River, to Mississippi Valley Structural Steel Co., 20 North Wacker Dr., Chicago, $19,976. Noted May 26.

Ill., Joliet—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling and constructing 2 story, basement, brick, steel, rein.-con. addition, to G. E. Vonville Co., Calumet City, $99,000. Noted May 19.

Mich., Jackson—ELEVATOR—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevators in U. S. Post Office, to Haughton Elevator Co., Vermont Bldg., Wash., D. C., $3,310.

Mo., Kansas City—STEAM PUMP—U. S. Eng. 707 Postal Telegraph Bldg., 1 wet vacuum steam pump, f.o.b. Jefferson City, to Wagener Steam Pump Co., Inc., 1101 8th St. S.W., Canton, O., $108; complete tank heating system for 200,000 gal. fuel oil tank at Jefferson City, to A. D. Jacobson, 329 Southwestern Blvd., $692; 2,000 poles 12 to 20 ft. lengths, f.o.b. Waverly, to Shirley Scott, Carrollton, at 7.5c. each; four length 6 in. and six length 2 in. wrought steel pipe, to W. B. Young Supply Co., 208 Delaware St., Kansas City, 96.07c. and 17.24c. per ft. respectively; 1 steel pump house 18 x 18 ft., Jefferson City, to Columbian Steel Tank Co., 1507 West 12th St., Kansas City, $461.

New Jersey—DIKE—U. S. Eng., 30 Whitehall St., New York removing dike in Manasquan River, to Parker & Graham, Passaic, $7,888. Noted Apr. 28.

N. Y., Columbiaville — WATER HOUSE — Superintendent Lighthouses, Staten Island, constructing airway keepers water house, incl. heating plant, water supply system, and septic tank, to S. L. Van Buren, Columbiaville, $2,895.

N. C., High Point—STEEL, etc.—Con. Q. M., reinforcing steel for post office, to Knoxville Iron Co., Knoxville, Tenn.; structural steel, to Bristol Steel-Iron Wks., Inc., Bristol, Va.; plumbing and heating, to Public Serv. Plumbing & Heating Co., Saginaw, Mich.; miscellaneous and ornamental iron, to Koehler Bros., Saginaw, Mich., aluminum windows and ornamental aluminum, to Kawneer Co., Niles, Mich.; cement, to Richmond Branch Lehigh Portland Cement Co., Allentown, Pa. Noted Apr. 14, under "Contracts Awarded."

Pa., Nanticoke—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office, to G. H. Evans, Wash., D. C., $20,780. Noted Apr. 28.

Tenn., Memphis—VIBRATING SCREENS—U. S. Eng., P.O. Box 97, 2 centrifugal vibrating pumps, to Allis-Chalmers Mfg. Co., 464 Congress Ave., Milwaukee, Wis., $1,850; 2 complete sets finger mechanism, one at Bridge Junction, Ark. and other at foot General Hood St., New Orleans, La., to Link Belt Co., 910 South Michigan Ave., Chicago, Ill., $10,500; wire rope, Lot 1, to Macwhyte Co., Kenosha, Wis., $1,985; Lot 2, to Hazard Wire Rope Co., 230 Park Ave., New York, N. Y., $47,278; Lot 3, to Wire Rope Co. of America, 464 Congress Ave., New Haven, Conn., $5,572; Lot 4, to Pidgeon-Thomas Iron Co., 94 North 2nd St., $883. Grand total $68,068.

Va., Cape Charles—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to Sanford Bros., Mongtomery, Ala., $53,883. Noted May 19.

Wis., Kenosha—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, incl. approaches, to Anderson & Co., 56 East 89th St., Chicago, Ill., $156,700. Noted May 19.

Alaska, Fairbanks—ELEVATOR—Treas. Dpt. at office Sup. Archt., Wash., D. C., passenger elevator in U. S. Post Office, to Montgomery Elevator Co., Moline, Ill., $7,300. Noted Apr. 28.

RAILWAYS

PROPOSED WORK

Oregon—Oregon Electric Railway Co., subsidiary Spokane, Portland & Seattle Ry., A. S. Witchel, ch. engr., Portland, 8 mi. railroad from Forest Grove to site of Stimson Lumber Co. at Seghers. Applied to Interstate Commerce Comn. for permit.

SUBWAYS AND TUNNELS

BIDS ASKED

Utah—See "Federal Government."

GRADE CROSSINGS

PROPOSED WORK

N. Y., Salamanca—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., revised plans eliminating grade crossing Wildwood Ave. $45,000. Pub. Serv. Comn. approved revised plans. Test borings awarded to Osborne Drilling Co., 70 East 45th St., New York. Noted Dec. 24.

N. Y., Tioga—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., and Lehigh Valley R.R., G. T. Hand, ch. engr., 143 Liberty St., New York, had revised detailed plans approved by Pub. Serv. Comn. for eliminating Waverly-Oswego Part 3 Crossing. Test borings awarded to Osborne Drilling Co., 70 East 45th St., New York. Noted Feb. 11.

N. Y., Wallkill—New York, Ontario & Western R.R. Co., W. C. Heidenthal, ch. engr., Middletown, soon takes bids eliminating grade crossing on Pine Bush Hy. Pub. Serv. Comn. approved specifications. Noted Dec. 3.

BIDS ASKED

Tex., Dallas—July 6, by City, c/o O. H. Koch, dir. P. Wks., Missouri-Kansas & Texas R.R., F. Ringer, ch. engr., St. Louis, Mo., St. Louis Southwestern R.R., W. S. Hanley, ch. engr., Tyler, and Rock Island R.R., W. M. Petersen, ch. engr., Chicago, Ill., steel, rein.-con., concrete underpass and approach to Lamar-McKinney Viaduct, Lamar and McKinney Sts. $260,000. Noted Mar. 31.

CONTRACTS AWARDED

N. Y., Salamanca—See "Proposed Work."

N. Y., Tioga—See "Proposed Work."

N. Y., Tonawanda—Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., and International Ry., H. E. Riexinger, engr. right-of-way, 210 Pearl St., Buffalo, test borings in connection with eliminating Kenmore Ave. Grade Crossing, to Osborne Drilling Co., 70 East 45th St., New York.

PIERS AND WHARVES

PROPOSED WORK

Pa., Kittanning—Pittsburgh Limestone Co., constructing docks and limestone handling equipment to transfer limestone into barges. $80,000.

AIRPORTS

CONTRACTS AWARDED

La., New Orleans—Orleans Levee Bd., constructing, placing 33,000 sq.yd. fascine mattresses ballasted with 7,500 tons rip rap stone as sub-aqueous protection at outer end of Shushan Airport, to Lester F. Alexander Co., Audubon Bldg., $68,850. Noted May 19.

GRAIN ELEVATORS

PROPOSED WORK

Sask., Tako—Standard Elevator Co., grain elevator. $50,000.

CONTRACTS AWARDED

Kan., Wellington—Aetna Mills, c/o Commander-Larabee Corp., Dwight Bldg., Kansas City, Mo., 850,000 bu. rein.-con. addition to grain elevator, totaling capacity to 1,000,000 bu., to Jones-Hettelsater, 60 Mutual Bldg., Kansas City, Mo.

Kan., Wellington—Commander-Larabee Corp., 661 New Cham. Com., Minneapolis, Minn., sixteen 800,000 bu. concrete, steel storage tanks, to Jones-Hettelsater Constr. Co., 600 Mutual Bldg., Kansas City, $75,000.

POWER AND LIGHTING

PROPOSED WORK

Calif., Pasadena — City Council soon takes new bids ornamental street lighting system on North Lake Ave. Former contract rescinded. Noted June 2, under "Contracts Awarded."

Minn., Rochester—Election in July to amend city charter to permit installation municipal natural gas system. $100,000 up. C. H. Armstrong, city engr. Noted Mar. 12.

New York—New York Power & Light Co., 126 State St., Albany, electric distribution systems in Canajoharie, Montgomery Co.; Cherry Valley, Otsego Co.; Sharon, Schoharie Co.; Palatine Bridge, Montgomery Co.; and Arietta, Hamilton Co.

CONTRACTS AWARDED

N. Y., New York—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., furnishing, installing electric light and power system for Concourse Shops and Yard of Independent System City-owned Rapid Transit Railroads, to J. L. Goodrich, Inc., 205 East 42nd St., $33,703. Noted May 12.

PARKS AND SPORTS

PROPOSED WORK

La., New Orleans—Tulane University, A. B. Dinwiddie, pres., soon takes bids gymnasium building on campus between Freret and Willow Sts., $140,000. Armstrong & Koch, Audubon Bldg., archts. Noted Mar. 24.

N. J., Clifton—Passaic County Park Comn., 45 Church St., Paterson, 25 acre park, incl. playground equipment, benches, grading, 75 x 150 ft. pool, along Weasel Brook between Pauleson and Gregory Aves. $25,000. F. W. Loede, 45 Church St., Paterson, engr.

N. J., Mount Hope—I. L. Tamaoroff, engr. 410 East Elizabeth Ave., Linden, open air rein.-con. swimming pool, for A. Backus, c/o engr. $25,000.

N. J., South Amboy—Bd. Educ., High School, athletic field, incl. grading, sodding, Ward Ave. $25,000. Engineer not appointed.

N. Y., Syracuse—See "Excavation, Drainage Irrigation, Levees, Rivers and Harbor."

O., Newark—City, W. W. Davies, Newark, in charge, 100 x 200 ft. concrete swimming pool. Site being selected.

CONTRACTS AWARDED

Conn., Bridgeport—City, Bd. Park Comrs., brick and frame golf club at Wheeler Park course, to Hewlett Co., 886 Main St. Est. $25,000. Noted June 9.

Ind., New Albany—New Albany Country Club, 100 ft. diam. circular, concrete swimming pool, 15 ft. white sand beach. $25,000. Owner builds. Hunter Pools, Indianapolis, engr.

HEATING AND VENTILATING

PROPOSED WORK

N. Y., New York—C. S. Makepeace, 30 Main St., Providence, R. I., plans by Bowden & Russel, 19 West 44th St., 5 story heating plant, plumbing for stores and apartment, 130 1st Ave. $40,000.

BIDS ASKED

N. Y., Middletown—June 29, by Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, heating, sanitary, kitchen equipment, New Dining Room Building; adv. E. N.-R. June 23.

CONTRACTS AWARDED

N. Y., New York—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., furnishing, installing station and tunnel lighting equipment, to Fischbach & Moore, 266 East 41st St., $76,600. Noted Apr. 14.

N. Y., New York—Sutton Studios, Inc., 233 Bway., fire tower, elevators, plumbing, mechanical equipment for studios, 1033 1st Ave., to J. Pollock, 326 West 55th St. To exceed $40,000. Noted Mar. 3.

UNCLASSIFIED

PROPOSED WORK

Pennsylvania and New York—GAS PIPE LINE—Lycoming Natural Gas Co., c/o Standard Oil Co. of New Jersey, 26 Bway., New York, plans 40 mi. 20 in. steel gas pipe line to connect Potter County, Pa., fields with Tioga Fields, N. Y. **Maturity soon.**

BIDS ASKED

N. Y., Babylon—TRACT DEVELOPMENT—See "Contracts Awarded."

O., Cleveland—IMPROVEMENTS—June 27, by Bd. Educ., F. G. Hogen, dir., school ground improvements at John Marshall, James Ford Rhodes and South High Schools, incl. sewer and drainage lines, driveways, wire mesh fence, seeding and sodding. $125,000.

Que., Montreal — UNDERGROUND CONDUITS, etc.—June 27, by City Executive, underground conduits, manholes, etc., on Park Ave., Beaumont and Jean Talon Sts. $200,000.

CONTRACTS AWARDED

New York — TURN STILE EQUIPMENT — Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, furnishing, installing turnstile equipment on Lines A, B, C, D and E portion Independent System City-owned Railroads, Manhattan, Brooklyn and Queens Boros, to Perey Mfg. Co., 101 Park Ave., New York, $89,080. Noted May 19.

N. Y., Babylon—TRACT DEVELOPMENT—Gleeson & Dolan, 152 West 42nd St., New York, 52 acres tract development and residential groups, Babylon Beach, separate contracts.

N. Y., Brooklyn — STATION FINISH — Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., New York, station finish work Court St., Hoyt St.-Schermerhorn St., Fulton St. Stations Rapid Transit R.R., to Peter Reiss Constr. Co., 186 Remsen St., $354,600. Noted May 26.

N. Y., Wingdale—BAKERY OVENS, etc.—Comrs. Dpt. Mental Hygiene, State Office Bldg., Albany, ovens and machinery for bakery, Harlem Valley Hospital, to I. J. White, 494 Broome St., New York, $29,250; heating for kitchen building, to Callahan Heating Co., 5 Intervale Ave., White Plains, $598; sanitary work, to H. N. Gardner, Dover Plains, $987; equipment for Building 24, to S. Blickman, 536 Gregory Ave., Weehawken, N. J., $29,489. Grand total $60,324. Noted Apr. 21.

Pa., Butler—MINE TIPPLE, etc.—Brier Hill Coal Co., Butler Co. Natl. Bank, corrugated iron or frame, irregular sized mine tipple, own forces. Soon takes bids 400 ft. 30 in. belt conveyor feeder, vibrator, lowering equipment, crusher and auxiliary screens. A. M. Klink, Butler, engr.

MATERIALS

PROPOSED WORK

ROAD OIL—**Edwardsville, Ill.**—Madison Co. rejected bids June 8, 1,000,000 gal. road oil for use on 180 mi. roads. W. E. Howden, Court House, supt.

WATER PIPE, etc.—**Revere, Mass.** — City, P. Wks., rejected bids Apr. 29, water and sewer pipe, gate valves.

BIDS ASKED

PIPE, etc.—**Chicago, Ill.**—June 27, Dpt. P. Wks., City Hall, furnishing, delivering 250 tons ⅜- to 2-in. lead pipe at various City Pipe Yards; 60,000 lb. plumbers solder at Pipe Yard B, 3150 South Sacramento Ave. A. A. Sprague, comr.

ENAMELED CLAY TILING, etc.—**Boston, Mass.**—June 27, by City Transit Dpt., E. F. Condon, secy., enameled clay tiling and enameled metal tiling for Kenmore Station (now under construction). **$5,000 up.**

BITUMINOUS CONCRETE, etc.—**New Jersey**—July 6, by State Hy. Dpt., Trenton, bituminous concrete and sheet asphalt; adv. E.N.-R. **June 23.**

ASPHALTIC MIXTURE — **Montreal, Que.** — **June 27, by** City Executive, 30,000 tons asphaltic mixture. A. Nickle, supt. purchase.

PRESSURE MAIN, etc.—**Montreal, Que.**—June 28, by Executive Com., 60,000 ft. rein.-con. pressure main and accessories and jointing material.

CONTRACTS AWARDED

CAST IRON PIPE—**San Rafael, Calif.**—Marin Municipal Water Dist., 30,100 ft. 12 in. Class 200 and 4,400 ft. 10 in. Class 150 c.i. pipe, to R. D. Wood & Co., 400 Chestnut St., Phila., Pa., $34,059; eleven 12 in. 175 lb., two 12 in. 125 lb., and four 10 in. 125 lb. valves, to Kennedy Valve Co., 448 10th St., San Francisco, $850; fittings, to Grinnell Co., 5th and Brannan Sts., San Francisco, $1,003. Grand total $35,912.

EMULSIFIED ASPHALT—**Hartford, Conn.**—Bd. Contr. & Supply, 60,000 gal. emulsified asphalt, to American Bitumuls Co., Everett, $6,316. Noted May 26.

CAST IRON PIPE — **Torrington, Conn.** — Municipality, 200 tons 10 in. c.i. pipe, to Donaldson Iron Wks., Emaus, Pa.

LUMBER—**Shreveport, La.**—Caddo Parish Police Jury, 53,248 ft. b.m. creosoted lumber, to National Lumber & Creosote Co., Texarkana, Ark., $1,704.

LUMBER and PILING—**Fayette, Mass.**—Jefferson Co., c/o Bd. County Supervs., lumber and piling needs during year until Mar. 6, 1932, to Gulf States Creosoting Co., Jackson, $41.50 per 1,000 ft. lumber and 29c. per lin.ft. piling delivered to any railroad station in county.

CAST IRON PIPE—**Lynn, Mass.**—City, Water Dpt., 8,000 ft. 6 in. and 250 ft. 10 in. Class B, cement lined c.i. pipe, to U. S. Pipe & Fdry. Co., Oilver Bldg., Phila., Pa., at $30.65 and $31 per ton respectively. Noted June 16.

CAST IRON WATER PIPE — **Woodstock, N. H.**—Municipality, 100 tons 6 and 8 in. c.i. water pipe, to Warren Fdry. & Pipe Co., Phillipsburg, N. J.

PORTLAND CEMENT—**Brooklyn, N. Y.**—H. Hesterberg, pres. Brooklyn Boro, Boro Hall, 3,000 bbl., portland cement, to S. B. Duffy, 2nd Ave. and 51st St., $5,070; 400,000 gal. asphaltic cement, to Standard Oil Co., 26 B'way., New York, $20,040; 250,000 gal. asphaltic road oil, to Texas Co., 17 Battery Pl., New York, $12,000; 15,000 cu.yd. asphalt sand, to B. Turecamo Contg. Co., New Cropsey Lane, $14,775; 15,000 cu.yd. broken stone, to Brooklyn Sand & Gravel Co., foot 37th St., $22,200. Grand total $74,085. Noted May 19.

PIPE—**Croghan, N. Y.**—Municipality, 800 tons 10 in. c.i. pipe, to U. S. Cast Iron Pipe & Fdry. Co., Burlington, N. J.

GRANITE BLOCKS—**New York, N. Y.**—F. Kenney, deputy and acting comr. Purchase, Municipal Bldg., granite blocks, to J. Leopold & Co., 60 East 42nd St., $13,442. Noted May 26.

PORTLAND CEMENT—**New York, N. Y.**—H. Bruckner, pres. Bronx Boro, Crotona Park, 3rd and Tremont Aves., 5,000 bags portland cement, to J. A. McCarthy Co., 479 Walton Ave., $1,980. Noted June 2.

STRUCTURAL STEEL, etc.—**Raleigh, N. C.**—Division Purchase & Contr., Morgan St., furnishing 6,057 lb. structural steel, to Virginia Bridge & Iron Wks., Builders Bldg., Charlotte, $169; 1 carload creosoted sign posts, to Gulf State Creosoting Co., 4431 Court R, Birmingham, Ala., at $0.49 each; 1 carload creosoted piles to North State Creosoting Co., Wilmington, $893; 1 carload galvannealed steel sheets, to Dillon Supply Co., 216 South West St., $3,228, 1 carload galvannealed steel sheets and 1 carload shovels, to American Hardware & Equipment Co., 215 West 1st St., Charlotte, $3,228 and $12.71 doz. respectively; 4,739 lb. reinforcing steel, to O. Z. Wrenn, Kinney Bldg., Charlotte, $118; reinforcing steel to different destinations, to O. Z. Wrenn, Kinney Bldg., Charlotte, South 3. F. Co., and Dietrich Bros., 220 East Pleasant St., Baltimore, Md.; miscellaneous iron and steel, to Seaboard Steel & Iron Co., Ostend and Paco Sts., Baltimore, Md., $112.

ROAD OIL — **Dayton, O.** — Montgomery Co., furnishing, applying 50% asphaltic road oil to 400,000 sq.yd. various twp. roads and streets, to F. L. Krumholtz, 1020 Superior Ave., $4,280.

PIPE—**Fond du Lac, Wis.**—Muncipality, 6,000 ft. 14 in. c.i. water pipe, to Lynchburg Fdry. Co., Lynchburg, Va.

EQUIPMENT

BIDS ASKED

TRUCK—**Fresno, Calif.**—June 30, by S. G. Carr, clk., Colony School Dist., one 1½ ton capacity dual wheel truck, 157 in. wheelbase, valve-in-head motor with 23.3 hp. rating.

GENERATING UNITS—**Los Angeles, Calif.**—Aug. 2, by T. Oughton, city purch. agt., **(a)** furnishing, erecting first of 2 steam generating units and appurtenances of 1,400 lb. per sq.in. maximum pressure, 1,350 lb. normal working pressure. Alternate bids will be considered on equipment of 480 lb. maximum pressure, 450 lb. working pressure **(b)** furnishing, erecting second of 2 steam generating units, Spec. 2826; furnishing steam turbine electric generator unit, f.o.b. cars (bidder to specify point), 81,250 kva., 65,000 kw., power factor 0.80, voltage 13,800, phases 3-Y connector, 50 cycles.

TRUCK CHASSIS—**Petaluma, Calif.**—June 29, by A. F. Tomasini, secy. Bd. Educ., two 1½ ton truck chassis.

ENGINE and GENERATOR, etc.—**Illinois**—June 28, by Div. Architecture & Eng., Springfield, horizontal non-releasing engine and 250 kw. D.C. generator for Anna State Hospital, Anna; two 400 hp. boiler and stokers for Illinois State Penitentiary, Joliet; boilers, stokers, horizontal non-releasing engine and 300 kw. D.C. generator for Jacksonville State Hospital, Jacksonville; steel shelving for library for Centennial Building, Springfield; chain grate stokers at Research and Education Hospitals, Chicago. C. H. Hammond, Springfield, state archt.

VAULT COVER FRAMES—**Chicago, Ill.**—June 29, by Dpt. P. Wks., City Hall, 535 tons vault cover frames and lids to various city pipe yards. A. A. Sprague, comr.

GAS SHOVEL—**Amesbury, Mass.**—James E. Watkins Co., Amesbury, in market 1 yd. gas shovel.

SHOP SUPPLIES, etc.—**Boston, Mass.**—June 27, by City, A. M. Sullivan, bus. mgr. School Com., furnishing shop supplies for city schools, incl. general hardware, electrical supplies, steel and angle iron, sheet metal supplies, pipe and fittings, welding supplies, smelting products, masonry supplies, plumbing equipment, paint, automobile supplies, etc. **$8,000 or more.**

WATER METERS—**Cincinnati, O.**—June 28, by C. E. Lex, purch. agt., 3,000 water meters with outlets, ⅝ in. diam.

ELECTRIC ELEVATOR, ETC.—**College Station, Tex.**—June 30, by W. Wipprecht, bus. mgr. A. & M. College, 1 electric elevator, 1 hydraulic elevator and 1 pneumatic rotating automobile lift. F. E. Giesecke, College Station, archt.

CONCRETE MIXER — **Willowdale, Ont.** — R. Sage, in market ¼ or ½ yd. concrete mixer.

CONTRACTS AWARDED

BOILER—**Colorado Springs, Colo.**—City, new boiler for power plant using Lungstrom preheater, to Springfield Boiler Co., 1901 East Capitol Ave., Springfield, Ill., $50,519. Noted May 26.

SINGLE DUCT, etc.—**Boston, Mass.**—City, Fire Dpt., J. A. Rourke, comr. P. Wks., City Hall, 1,620 ft. single duct, 15 box posts, 2 manholes and other miscellaneous construction, to J. W. O'Brien, 53 State St., **$1,185.**

SEWAGE, PUMPING EQUIPMENT—**Framingham, Mass.** — Commonwealth of Massachusetts, Comn. of Administration & Finance, Purchasing Bureau, State House, Boston, sewage, pumping plant and equipment at Reformatory for Women, to Gilbert H. Gleason & Co., 25 Huntington Ave., Boston, $1,880.

FOREIGN

Belgium, Bruges—Belgium Government, Municipality of Bridges and Bruges Zeevaart Instellingen Co., Bruges, plan port development, extending and equipping inner port, warehouses, quays, electric cranes and dredging Mairatain Channel. To exceed $1,000,000.

India—July 18, by General Manager North Western Railway, Lahore, 3 locomotives engines and tenders, 2 ft. 9 in. gage; July 6, for 2,000 cwt. anti friction metal for locomotive bearings and 2,000 cwt. anti friction metal for carriage and wagon bearings; and in market supply 34 superheated and saturated locomotives boilers.

Portugal, Lisbon—Railway Co. of Portugal (Compagnie de chemin de Fer Portugal) c/o General Purchasing Agent, in market 6 weigh bridges, 40 metric ton each with service platform of 6 metres in length.

Turkey—Turkish Government, Angora, plans cotton textile plants, various locations. To exceed $1,000,000.

Union Socialist Soviet Republics—Soviet Govt. c/o Amtorg Trading Corp., 261 5th Ave., New York, plans apartment units, 10 in Moscow 5 in Leningrad and 64 other cities for specialists and technicians, program for late 1932-33; plans in progress food industries group, incl. 2 fruit and vegetable drying factories, canning plant tomato paste unit, pickle works, starch manufacturing plant, sego manufacturing unit, later plans fruit juice production, jam and apple butter kitchens, berry packing plant with sterilization equipment, in vicinity Voronezh, Central Black Soil Region; preliminary work in progress industrial plant, developing manganese deposits constructing railway, at Achinsk, Western Siberia.

Union Socialist Soviet Republics—Soviet Government, c/o Amtorg Trading Corp., 261 5th Ave., New York, metallurgical plant, pipe factory, temporary electric light plant, railroad coking works, workers dwellings and water supply system, at Dashkesan; steel plant at Nizhni Tagil; and steel plant, foundry, die casting shops, at Leningrad, all by technical aid contracts; asbestos manufacturing, brake lining plant, by technical aid contracts under supervision Multibestos Co., Walpole, Mass. rubber industries, incl. cord mill, rubber reclaiming plant, rubber foot wear, tires, etc. by technical aid contracts under supervision Seiberling Rubber Co., Akron, O., both projects at Yaroslavl.

U. S. S. R., Leningrad—Municipality, c/o Amtorg Trading Corp., 261 5th Ave., New York, park, incl. 100,000 seating capacity stadium athletic fields, swimming pool, landscaping dredging, bridges, Yelagin Island, in Neva River and other islands. $25,000,000.

Commercial Buildings

PROPOSED WORK

Calif., Oakland—Medico-Dental Tower, Inc., c/o W. H. Weeks & Assoc., archts., 525 Market St., San Francisco, (1st unit) 12 story, basement, rein.-con., steel office, Grand Ave. and Harrison St. $200,000. Ultimate $550,000.

Del., Bridgeville—School Building Comn. for Bridgeville Dist., H. V. Holloway, supt., State House, Dover, sketches by Guilbert & Betelle, 20 Branford Pl., Newark, N. J., 2 story, basement, brick, stone, steel addition, Laws St. $150,000. Delaware School Foundation, Inc., Du Pont Bldg., Wilmington, engrs.

Ind., Indianapolis—Fourth Church of Christ Scientist, 11 Johnson Ave., Indianapolis, or c/o George & Zimmerman, archts., 501 Meyer Kiser Bank Bldg., church, 5201 Pleasant Run Blvd. To exceed $150,000. Noted May 12.

Mass., Leominster — All Saints Episcopal Church, H. Price, chn. Building Comn., plans by E. L. Baker, 15 Prospect St., and takes bids in July, 1 story, basement, granite church. $150,000. Haynes & Mason, Main St., Fitchburg, engrs. Noted May 12.

Mass., Northampton—Smith College, at office President, sketches by Ames & Dodge, 148 State St., Boston, group college buildings, $150,000 or more. Noted May 12.

Mo., St. Louis—Bd. P. Serv., City Hall, bids in July, (1st unit) Negro hospital unit, incl. brick, concrete service building, incl. laundry, dining hall, power house, Goode, Kennerly, St. Ferdinand and Whitier Sts. $300,000. A. Osburg, 301 City Hall, archt. L. R. Bowen, City Hall, engr. $300,000. Noted Jan. 21.

Mo., St. Louis—F. J. Cornwell Real Estate Co., 111 North 7th St., sketches completing unfinished 6 story, rein.-con., brick store, office, 8th and Market Sts.

N. J., Elizabeth — Owner, c/o C. C. Bell, archt., 8 South Ave. W., Cranford, altering and constructing 2 story, basement, brick, steel church addition. $150,000. **Maturity indefinite.**

N. J., Fort Lee—G. W. Dexter, archt., 201 Main St., bids in July on separate contracts 4 story, basement, brick, steel apartment, Jerome Ave., for M. Rubin, c/o J. J. Vogel, 204 Main St. $150,000. Noted June 9.

N. J., North Caldwell—Bd. Educ., R. L. Matthews, chn. Building Comn., 2 Glenwood Pl., North Caldwell, sketches by A. Merchant, 1 Elm Row, New Brunswick, rebuilding 2 story, basement, brick, steel school, plain found., Gould Ave. $150,000. Noted June 9.

N. Y., Brooklyn — Brooklyn Childrens Museum, Brooklyn Ave. and Park Pl., plans special campaign for funds and takes bids next Spring, 3 story, 250x250 ft. childrens museum, Brooklyn Ave. and Park Pl. $750,000. L. Moore, 522 5th Ave., New York, archt. J. Burgevin, c/o owner, landscape archt. Noted May 19.

N. Y., New York — St. Thomas Lutheran Church, East 175th St. and Topping Ave., church. To exceed $150,000.

N. Y., New York—Bd. Health, 139 Center St., rejected bids Jan. 18, health center, 140th St. and Alexander Ave. Money appropriated for project returned to general fund. Indefinite when new bids will be taken. Noted Jan. 7.

O., Cleveland—State and Bd. Comrs. Cuyahoga Co., plans by J. P. Schooley, Hartman Bldg., 1 story, brick, steel, concrete institutional building, Turney Rd. $365,000.

Commercial Buildings (Continued)

Wis., Oshkosh—Grace Evangelical Lutheran Congregation, B. Schlueter, pastor, 904 Nebraska St., 2 story, basement, brick, steel church. Architect not appointed.

BIDS ASKED

Conn., West Haven (br. New Haven)—June 29, by W. F. Ladd, chn. Armory Comn., 1 and 2 story, 140 x 175 ft., and 80 x 125 ft., brick, concrete armory, Wagner Pl. and Main St. $150,000. Fletcher-Thompson, Inc., 1336 Fairfield Ave., Bridgeport, archts. Noted Apr. 21.

Mass., Lawrence — June 25, by Ashton, Huntress & Alter, archts., 477 Essex St., 3 story, basement, 79 x 108 ft. Y.M.C.A. building, Lawrence and Valley Sts., for Y.M.C.A., Mrs. G. D. Fitts, chn. and P. L. Wheeler, pres. $150,000. Former bids rejected. Noted May 19.

N. J., Morris Plains—June 25, by C. W. Bolton, archt., Schaff Bldg., Phila., Pa., taking bids on revised plans general contract 2 story, basement, brick, steel, church, Sunday school, social hall, Speedwell and Hill View Aves., for Presbyterian Church of Morris Plains, 55 Park Pl., $150,000. Noted Feb. 25.

Pa., New Castle — Woods Estate, Lawrence Savings & Trust Bldg., trustee, bids about July 1, rebuilding 2 story, basement, 53 x 105 ft., brick, steel store, East Washington and Mill Sts. W. J. Offutt (dept. store), East Washington St., lessee. W. G. Eckles Co., 719 Lawrence Savings & Trust Bldg., archts.

Tex., College Station—July 4, by Bd. Directors A. & M. College, S. G. Bailey, secy., petroleum engineering building; 2 sections of veterinary hospital building group; 1 section of animal industry building; sewer lines and water mains. G. E. Giesecke, College Station, archt.

CONTRACTS AWARDED

D. C., Wash.—C. H. Tompkins, contractor, 1608 K St., structural steel for College of Arts and Science, to Lehigh Structural Steel Co., Allentown, Pa., for Georgetown University, $500,000. Contractor soon lets other separate contracts. Noted Apr. 28, under "Contracts Awarded."

Fla., Miami—Catherine Henry Hospital, addition to hospital, to Gaffney Constr. Co., Miami. $150,000.

Ga., Atlanta—J. Wells, supt. Schools, Fulton Co., Court House, constructing Fulton Co. High School, to Southern Ferro Concrete Co., Ellis St., $105,580; heating, to Buckhead Plumbing & Heating Co., 3051 Peachtree Rd. N. E., $15,885. Noted Apr. 14.

Mass., Boston—City, E. R. Logan, 45 City Hall, for Health Unit 7, Roxbury, 4 story, 63 x 120 ft.; brick, concrete, to Matthew Cummings Co., 43 Tremont St. Noted May 12.

Mass., Weymouth — Town, P. T. Pearson, supt. schools, and H. B. S. Prescott, archt., 12 Pearl St., Boston, 2 story, basement, 60 x 110 ft., brick, rein.-con. elementary school, Weymouth Heights, to Clark & Smith, Inc., 1372 Hancock St., Quincy. Noted May 12.

N. J., Hillside — Evergreen Cemetery Assn. A. D. Crane, pres., North Broad St., general contract 3 story, basement, steel, stone administration building and entrance gate, Evergreen Ave., Dayton and Ludlow Sts., to W. L. Blanchard, 972 Broad St., Newark. Est. $150,000.

N. J., Lakehurst—P. P. Cret, archt., 112 South 16th St., Phila., Pa., general contract 1 story, basement, tower, memorial chapel, to E. E. Hollenbach Co., 1910 North Marshall St., Phila., Pa., for American Legion Memorial Assn., c/o contractor. $49,437. Contract for ornamental approaches will be awarded later. Noted May 19.

N. J., Montclair—Harris Realty Co., c/o A. Ramhurst, archt., 516 Bloomfield Ave., general contract 2 story, basement, brick, steel office, South Fullerton Ave. and Church St., to O. O. Peterson, 78 North Willow St. Est. $150,000. Noted May 26.

N. Y., Mount Vernon — First Presbyterian Church, South 6th Ave., church and Sunday school, East Lincoln Ave., to Skinner, Cook & Babcock, 60 East 42nd St., New York. Contractor soon takes bids on separate contracts.

Pa., Phila.—Bd. Educ., Administration Bldg., general contract South Philadelphia High School, 1 story, brick, Snyder Ave. between 13th and Broad Sts., to R. Herzog, 10 South 18th St., $112,292.

Wis., Milwaukee—Bd. School Directors, precast roof construction for Rufus King High School, to Federal American Cement Tile Co., 608 South Dearbon St., Chicago, Ill. $4,762, miscellaneous steel, iron etc., to W. F. Eichfeld & Son, East Pittsburgh Ave. and South Barclay St. $7,736, masonry work, to W. T. Buckholtz, 2628 North Humboldt St. $127,435, cut stone, to Andres Stone & Marble Co., 326 East Keefe St. $28,680, roofing, to J. A. Christiansen, 2139 West Purdue St. $11,743, carpentry, to J. P. Jansen, 3079 North 39th St. $81,990; sheet metal, to Midwest Ventilating Wks., 123 East Pittsburgh Ave. $18,482, marble, to W. Salmon Marble Co., 5136 West Pierce St. $26,470, slate blackboards, to Bentley Bros., Inc., 1828 West Pierce St. $5,044; excavating, grading, E. L. Phillips School, to Kroeming Constr. Co., 4500 North Mitchell St. $718; playground surfacing, to Klupp Bros., 2118 South 19th St. $2,961; fencing, to W. Eichfeld & Son, East Pittsburgh Ave. and South Barclay St. $758, plumbing, to S. V. Hanley, 1653 North Farwell St., $268; plumbing in Morgandale School to Wenzel & Henoch Co., 1524 North 27th St., $597, in playground surfacing, to P. Singer Co., 3370 North Humboldt St. $4,699; general contract Windlake Ave. school, to Klupp Bros., 2118 South 19th St. $600, plumbing, to Stoehr & Landon, 1795 West Clybourn St. $866. Grand total $323,809. Noted May 26.

Industrial Buildings

PROPOSED WORK

Calif., San Francisco—STORAGE, etc.—Pacific Motor Supply Co., 1438 Market St., rebuilding 4 story storage and distribution plant, damaged by fire. $40,000.

Ind., Crown Point — LIGHT and POWER PLANT—City voted to establish municipal light and power plant.

Ia., Postville—STORAGE—Midwest Lumber Co., 7th and Jackson Sts., Dubuque, rebuilding lumber storage, distributing plant, destroyed by fire. $40,000. **Maturity indefinite.**

Ia., Sumner—POWER PLANT—City, E. A. Wismer, clk., bids in July, concrete, brick power plant building and equipment. $95,000. H. L. Cory Co., 1034 Redick Tower Bldg., Omaha, Neb., engr.

Ky., Henderson—WAREHOUSE—Tri-County Loose Leaf Tobacco Co. rebuilding tobacco warehouse, destroyed by fire.

La., Monroe—MANUFACTURING and STORAGE—Dixie Bedding & Furniture Co., Monroe, repairing manufacturing and storage plant, recently damaged by fire. $40,000.

Me., Dover-Foxcroft—STORAGE—John McGregor Spool Mfg. Co., rebuilding storage buildings damaged by fire. $40,000.

Neb., St. Edwards—POWER PLANT—City, H. W. Rich, clk., rejected bids May 31, power plant and distribution system. $56,806. Will readvertise. C. V. Barnhill, 416 Federal Trust Bldg., Lincoln, engr. Noted May 26.

N. J., Newark—PAINT FACTORY—H. D. Scudder, Jr., archt., 9 Clinton St., rejected bids Apr. 28, general contract 3 story, basement, brick, steel, Frelinghuysen Ave., for J. J. Hockenjos Co., 829 Broad St. $40,000. **Maturity indefinite.** Noted Apr. 28.

New York—POWER PLANT—Northern New York Utilities Corp., 58 Public Sq., Watertown, electric power plants, distribution system, in Lyonsdale, Lewis Co. and Brownsville, Jefferson Co. Company applied to Pub. Serv. Com. for permission to construct.

N. Y., Brooklyn—LAUNDRY—Lama & Proskauer, archts., 383 Jay St., rejected bids 1 story, 40 x 100 ft., brick, 61st St. and East 13th Ave., for Daylight Wet Wash Laundry, 1321 61st St. Noted Apr. 28.

N. Y., New York—TERMINAL—Bd. Transportation, J. H. Delaney, chn., 250 Hudson St., and Hudson & Manhattan R.R. Co., 30 Church St., reconstructing terminal to permit construction proposed 6th Avenue Subway, vicinity 6th Ave. and 34th St. $5,000,000.

N. Y., New York—SERVICE and REPAIR GARAGE—Interborough Rapid Transit Co., 165 Bway., plans by M. T. Ketz, 51 Chambers St., altering 1 story, 120 x 124 ft. store into gasoline service and repair garage, Columbus Ave. and Cathedral Parkway.

N. Y., New York — STEAM GENERATING PLANT—New York Steam Corp., 280 Madison Ave., plans by W. H. Paine, engr. and archt., 417 East 35th St., altering 2 story steam generating plant, incl. inter-connecting 7 steel stacks by horizontal ducts with necessary supports, 222 Pearl St. $40,000.

O., Cincinnati—FACTORY—Metal Specialty Co., 1533 Riverside Dr., rejected bids 2 story, 37 x 88 ft. office and 140 x 232 ft. factory, plain found., Langdon Rd. $200,000. Project indefinitely postponed. Tietig & Lee, 34 West 6th St., archts. Noted June 16.

O., Middletown—FLOUR MILL—F. O. Diver Milling Co., 809 Central Ave., rebuilding part of mill, damaged by fire. $40,000.

Pa., Barnes—WAREHOUSE—Clawson Fiske Co., rebuilding charcoal warehouse, destroyed by fire. $40,000.

Pa., Pittsburgh—GARAGE, etc.—J. Kenny Transfer Co., 101 Carson St., rebuilding garage, terminal storage, service, etc., Murtland Ave. and Lynn Way. To exceed $45,000. **Maturity indefinite.** Architect not appointed.

S. C., Orangeburg—LUMBER PLANT—Bamberg Lumber Co., reconstructing, repairing lumber plant, damaged by fire. To exceed $100,000. **Maturity indefinite.**

BIDS ASKED

Ill., Chicago—FERMENTATION BUILDING—Standards Brands, Inc., 2655 19th St., taking bids on revised plans remodeling fermentation building, 2235 West 48th St. $40,000. W. C. Bennett, 326 Madison Ave., engr.

N. J., East Orange—AUTO SERVICE STATION—Standard Oil Co. of New Jersey, 185 Washington St., Newark, taking bids general contract 1 story, basement, brick, steel, Main St. and Oraton Parkway. $40,000. Private plans.

N. J., Plainfield—GARAGE—See "Contracts Awarded."

N. Y., Brooklyn—SHOP, etc.—See "Contracts Awarded."

O., Shelby—LIGHT PLANT—June 27, by City, B. Fix, clk., 1 story, brick, steel, concrete municipal light plant addition. $85,000. Froelich & Emery, Toledo Trust Bldg., Toledo, archts. Noted Nov. 26.

Tex., Pilot Point — REFINERY — See "Contracts Awarded."

B. C., Vancouver—OIL REFINERY—Shell Oil Co. of British Columbia Ltd., 559 East 5th St. taking bids grading, preliminary work on site for oil refinery. Total est. $1,000,000. C. E. Fresholz, c/o owner, in charge of construction. W. M. Thompson, c/o Shell Oil Co., Shell Bldg., San Francisco, Calif., engr. Noted June 16.

Que., Hull—PAPER MILL—E. B. Eddy & Co. Ltd., Bridge St., bids about July 15, new paper mill and office. $400,000. M. Pratt, c/o Owners, engr.

CONTRACTS AWARDED

Ill., Wood River—REFINING PLANT—White Star Refining Co., refining plant (Pratt cracking unit), to J. P. Devine Co., Mount Vernon. Est. $40,000.

Ind., Anderson — FACTORY — Guide Lamp Corp., 2 story, 50 x 200 ft. brick, steel addition, used for tool room etc. and boiler house addition. Owner builds. Will purchase two 225 hp. boilers, etc.

Ind., Heltonville—PLANT—Heltonville Limestone Co., general contract 1 story, 100 x 150 ft., steel, stone addition, concrete found., to Bedford Fdry. & Machine Co., Bedford. Est. $40,000.

Ind., Indianapolis—PLANT—Acme-Evans Co., 852 Washington Ave., general contract twenty 40 x 80 ft. rein.-con. bins, 110 ft. high, capacity 140,000 bu., to W. P. Jungclaus, 825 Massachusetts Ave. Est. $40,000. Noted Dec. 7.

Ind., Indianapolis — SERVICE STATION — Lubrite Refining Co., brick, steel super-service station, Meridan and Walnut Sts., to B. C. Wagner, 7350 Wellington St., University City, Mo. Est. $40,000.

N. J., Linden—FACTORY—H. B. Brady, Inc., archts., 333 North Broad St., Elizabeth, general contract 1 story, basement, 50 x 120 ft., brick, steel, to W. D. Sherman, 286 North Broad St., Elizabeth, for W. J. Bush & Co., Stiles St. $40,000. Noted June 9.

N. J., Newark—W. E. Lehman, archt., 972 Broad St., general contract 1 story, basement, brick, steel garage, to L. DiGirolamo, Inc., 360 3rd Ave., Newark, for Alling Corp., 33 Ward St. Est. $40,000. Treas. Dpt. Wash., D. C., lessee. Noted May 5.

N. J., Plainfield—GARAGE—S. Slansky, 520 East 7th St., 1 story, basement, brick, steel, 427 East 3rd St., separate contracts. $40,000. Private plans.

N. Y., Brooklyn—SHOP, etc.—Sarit Traders, Inc., 271 Madison Ave., New York, 40 x 137 ft. shop and auto laundry, Kings Highway and East 91st St., separate contracts and day labor. **Maturity in fall.** T. Goldstone, 191 Joralemon St., archt. Noted June 2.

N. Y., New York—Marx Bros. Holding Corp., M. Marks, pres., 470 East 133rd St., general contract 2 story, 133 x 190 ft. service garage, to J. Schlesinger, 545 5th Ave. Est. $100,000. Noted May 19.

O., Piqua—PACKING PLANT—Val Decker Packing Co., 3 story, basement, 112 x 160 ft., steel, Ash St., to Green & Sawyer, Lima, $100,000.

R. I., Providence — RUBBER PLANT — Phillips-Baker Rubber Co., 44 Warren St., 2 story, 40 x 115 ft., brick addition, to Central Eng. & Constr. Co., Main St., Pawtucket.

Tex., Pilot Point—REFINERY, etc.—J. C. Schrouder & B. Young, Grandfield, Okla., 500 bbl. refinery and storage, separate contracts.

Tex., Smith Bluff—REFINERY, etc.—Pure Oil Co., altering and constructing refinery addition, distillation equipment, awarded to Alco Products Co., 220 East 42nd St., New York.

See proposal advertising on page 45

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G-E wound-rotor induction motor, full-voltage starter, and push-button station for convenient control. This is an unusually simple and efficient combination for you if your power is alternating current

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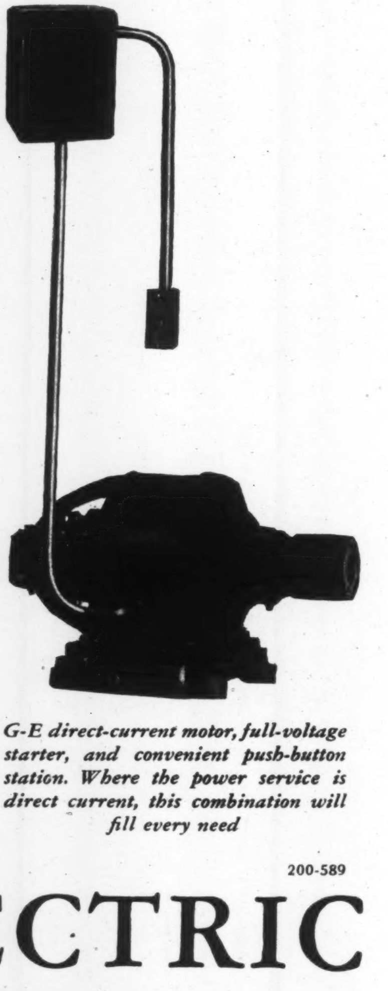

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CONSTRUCTION NEWS

SECTION OF ENGINEERING NEWS-RECORD—JUNE 30, 1932

WATERWORKS

PROPOSED WORK

Calif., Pittsburg—City, preparing estimates new reservoir in connection with municipal water system, also new water softener. G. T. Oliver, city mgr.

Ia., Council Bluffs—City 40 x 60 x 210 ft. rein.-con., brick, water department administration building. $250,000. H. J. Schneider & J. B. Larson, archts. City now laying watermains and improving reservoir by own forces.

Mont., Missoula—Montana Power Co., improving water works. $40,000. F. M. Kerr, genl. mgr.

Neb., Omaha—Metropolitan Utilities Dist., 18th and Harney Sts., preliminary plans board weirs and enlarging 2 arches for boilers, at Florence plant $44,000; cover for Walnut Hill Reservoirs $200,000; feed water heater for gas plant $4,700; water softener for gas plant $6,500.

O., Steubenville—City, extending water service to west end district of city, involving construction 300,000 gal. water tank, pumps, gate valves, watermains, hydrants, curb box, ditching, etc. $107,347. J. K. McGinnis, Steubenville, engr.

S. D., Sioux Falls—City mains in 8 blocks 21st St. and in 10th Ave. W. C. Leyse, city aud.

BIDS ASKED

Mo., Kirkwood—July 8, by City Council, improving waterworks plant to increase capacity from 1¼ m.g. to 2½ m.g.p.d. incl. 350 ft. 12-in. suction line, new clear well, 56 x 115 ft. rein.-con. reservoir, improving present settling basin, new filter units, rearranging present filters, one 750 g.p.m. and one 3,000 g.p.m. wash pumps. J. Wilson, city engr.

Neb., Valley—July 14, by City, 16 in. 300 g.p.m. tubular well or 18 in. 300 g.p.m. gravel treated well, 100 ft. deep, Layne Western type or Kelly type; one 300 g.p.m. deep well, turbine pump and motors or one 300 g.p.m. horizontal centrifugal pump and motor; 48 ft. 6 in. Class "B" or Class 150 c.i. pipe, pump house. Henningson Eng. Co., 326 Union State Bank Bldg., Omaha, engrs. Noted June 23.

Ont., Toronto—Aug. 9, by City, waterworks filtration plant at Victoria Park, incl. screen and chemical building, connecting to new intake tunnel, (already built), building containing low lift and high lift pumps, controls and suction well; coagulation basins, offices; laboratory, reservoir, filtration plant, buildings about 3 story in height; constructing reservoirs, footings, basins, etc., rein.-con. construction, electric light and power, steam heating, interconnecting piping of steel and concrete valves, meters, etc.; bids July 26 for equipment. $3,000,000. R. C. Harris, City Hall, engr. Gore, Nasmith & Storrie, 1150 Bay St., consult. engrs.

CONTRACTS AWARDED

Conn., Rocky Hill—Blair & Marchant, engrs., 100 Crown St., New Haven, steel tank, to Pittsburgh-Des Moines Steel Co., Neville Island, Pittsburgh, Pa., $4,320; pumping station, to Chas. Smith & Sons, 101 Water St., Derby, $3,350; pipe lines, to Chas. Blakeslee & Sons, 58 Waverly St., New Haven, $13,291. Grand total $20,961. Noted June 23.

Ia., Perry—City Council, iron removal and water softening plant as addition to waterworks, to Gjellefald Constr. Co., Forest City, $21,777. Est. $23,000-$28,000. Noted June 1.

N. J., Paterson—Passaic Valley Water Comn., 156 Ellison St., furnishing, installing 15,700 ft. 45 in. steel plate pipe in Garfield and Lodi, to Thomas Burke Co., Union, N. J., and Widener Bldg., Phila., Pa., $187,718. This corrects report in June 2 issue.

N. Y., Kingston — Adjutant General, State Capitol, Albany, water lines and sewer at State Armory, to DeWilligen Joy & Velotta, Paramus, N. J., $11,394. Noted May 26.

N. Y., Wingdale—Dpt. Mental Hygiene, State Office Bldg., Albany, water lines and sewers at Harlem Valley State Hospital, to P. Tomasetti, 1074 60th St., Brooklyn, $134,522. Noted Apr. 7.

Okla., Pawnee—City Council, waterworks, general contract to C. S. Clark Constr. Co., Petroleum Bldg., Oklahoma City, Okla.; 375 tons cast iron water pipe, to U. S. Pipe & Fdry. Co., Burlington, N. J. Noted May 12, under "Contracts Awarded."

S. D., Madison—City, six 4 in. and eleven 6 in. hydrants, to Waterous Co., 80 Fillmore Ave.

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E., St. Paul, Minn., $940; valves and valve boxes, to Cochran-Sargent Co., 605 East 8th St., Sioux Falls, S. D., $522. Noted June 14. Ave. to Chiswick Rd. $25,000 up.

SEWERS

PROPOSED WORK

Conn., Bridgeport—City authorized $150,000 bond issue, sewers. F. E. Tequet, City Hall, engr.

Conn., Hartford—Metropolitan Sewerage Dist., sewers in Blue Hills Sect. of Hartford and Bloomington. $185,000. C. Saville, 1026 Main St., engr.

Conn., Rocky Hill—State, bids late in July, sewage disposal plant for proposed Soldier's Home. $25,000. H. R. Buck, 650 Main St., Hartford, engr.

Ill., Lombard—City plans completed pumphouse, 283 manholes, 73,300 ft. 6- to 24-in. sewer, 1,200 ft. c.i. pipe Class A, 12,000 ft. cone cradle, 105 sq.yd. asphalt paving, 1 primary settling tank, sprinkling filter and dosing tank, stone and clay drainage system, trapless siphon, 1 secondary settling tank, mechanical clarifier, sludge drying bed, electric motors, 1 sludge digestion tank, 1 sludge pump, 4 centrifugal pumps, heating system. $250,000. Engineering Service Co., 53 South LaSalle St., Chicago, engrs. Noted July 31, 1930.

N. Y., White Plains—City bids in fall sewers in Rosedale Section from Hutchinson River Parkway to Rosedale Ave. to South Westchester Hills Golf Club to vicinity North St. $170,000. **Maturity in fall.** E. Halpin, Jr., city engr.

Pa., Pittsburgh — Penn Twp. rejected bids Shades Run Dist. 3, involving 2 mi. 8 in. terra cotta pipe. Will probably readvertise in July. A. Hutchison, 608 South Ave., Wilkinsburg, engr.

BIDS ASKED

Mo., St. Louis—July 19, by Bd. P. Serv., City Hall, 7,910 ft. 8- to 36-in. vitr. clay brick set in portland cement mortar and segmental block sewers for Maline Creek Dist. Sewer 2. $28,360. W. W. Horner, city engr.

Mont., Butte—July 6, by Comrs. Silver Bow Co., sanitary sewer improvements in Dist. 9, incl. sewerage system and disposal plant in Floral Park addition. $31,698. Noted May 5.

N. Y., Brooklyn—July 7, by H. Hesterberg, pres. Brooklyn Boro, Boro Hall, storm and sanitary sewers in Mansfield Pl., Bedford Ave., East 48th and 83rd Sts.

Pa., Pittsburgh — July 15, by W. Winner, secy. Ross Twp., Samuel Hamilton Grade School, Perry Hy., 27,700 ft. 12- to 30-in. concrete or terra cotta sewer in West View, Millvale, Ross Twp. and Shaler Twp., Girty's Run Sewer, $200,000. McGully Eng. Co., Berger Bldg., engrs.

Wis., Cedar Grove—July 7, by City sewage treatment plant equipment. A. E. McMahon Co., Menasha, engr.

Wis., Portage — July 19, by City, Imhoff type settling tank and trickling filter, pumping station, appurtenances, $40,000. Pearse, Greeley & Hansen, 6 North Michigan Ave., Chicago, Ill., consult. engrs. Noted Feb. 5.

CONTRACTS AWARDED

Mass., Boston—J. A. Rourke, comr. Dpt. P. Wks., 5 ft. 6 in. surface drain, Washington St., Dorchester, to M. Stapleton & Co., 14 Stellman Rd., Roslindale, $11,908—10 and 12 in. sewers in Ashmont Circle, to Hanover Contg. Co., 317 Hanover St., $3,963—Chestnut Hill Ave., to A. Piatelli & Co., 56 Rockdale St., Milton, $1,833—24 in. sewers in Washington St. and Stoney Brooks Reservation, to C. M. Callahan, Inc., 23 South Fairview St., Roslindale and John Williams, 8 Beechwood St., Roxbury, $8,039 and $6,844, respectively—36 in. sewers in Greenwich Park, to Charles Struzziery Co., 115 Kittredge Roslindale, $6,738. Grand total $39,325.

Mass., Boston—City, J. A. Rourke, comr. P. Wks., City Hall, concrete sewers in Park, Connors and Adams Sts., to Tufo & Yebba, 269 Hyde Park Ave., $9,110; Rowe and Marsh Sts., to J. Williams, 8 Birchwood Rd., $3,512—Metropolitan Ave. and Babson St., to C. Reppucci & Co., 10 Garden Court, $6,684—Birch Croft Rd. and George St., to J. Todesca, 101 Walworth St., $5,733. Grand total $25,039.

Mo., St. Louis—Bd. P. Serv., City Hall, Sect. A-6, Maline Creek Sewer, to S. Kraus Co., 645 Edmund St., $18,127; Cold Water Diversion Canal at Lambert-St. Louis Municipal Airport, Bridgeton, to Skrainka Constr. Co., Security Bldg., $5,510. Noted June 2.

N. Y., Beacon—Dpt. Mental Hygiene, State Office Bldg., Albany, sewers and waterlines at Mattewan State Hospital, to De Willigen Joy Vellotta, Paramus, N. J., $8,985.

N. Y., Delhi — Dpt. Education, Education Bldg., Albany, sewers and water lines at State School Argiculture, to I. A. Rosa, Amsterdam, $1,555. Noted May 19.

N. Y., New Paltz—Dpt. Education, State Office Bldg., Albany, sewers and water lines at Practice School, to P. Vellano, 1204 Albany St., Schenectady, $3,076. Noted Apr. 21.

O., Alliance — City Council, disposal plant, outfall sewer. Owner builds. Former bids rejected.

WASTE DISPOSAL

BIDS ASKED

Ont., Toronto—July 5 (extended date), by W. J. Stewart, mayor, City Hall, equipment for incinerator plant, Symes Rd. $620,000. Noted June 2.

BRIDGES

PROPOSED WORK

Calif., San Bernardino—City, State, San Bernardino Co., and Atchison, Topeka & Santa Fe Ry., M. C. Blanchard, Los Angeles, ch. engr. Coast Lines, preparing plans viaduct over Santa Fe R.R. tracks. City will pay $11,000, State $150,000, San Bernardino Co. $30,000 and railroad $75,000 toward cost. A. H. Lowe, city engr.

Louisiana—State, Baton Rouge, hy. bridge over Pearl River, near Pearlington, Miss. H. B. Henderlite, Baton Rouge, engr.

Maine—State Hy. Dpt., State House, Augusta, Windham-Ellweir Bridge, concrete, Standish Gray Rd., and concrete bridge over Nonesuch River, Scarboro-Causeway, $25,000; reconstructing concrete, steel bridge, Saco, to exceed $25,000.

Mass., Brookline—Town, Bd. Selectmen, concrete, steel bridge, Dean Rd. $25,000. H. A. Varney, town engr. Noted Apr. 7.

Texas—State Hy. Comn., W. R. Ely, chn., Austin, preparing plans and soon takes bids steel, concrete bridges over Bosque River and Green Creek, Hy. 67, Federal Aid Project 983-G, Erath Co.—steel, concrete, treated timber bridge over Lake Fork Creek, Hy. 37, State Aid Project

See proposal advertising on page 38

Bridges (Continued)

1002-B, Wood Co.—steel, concrete, treated timber bridges over Red River and Buck Creek, Hy. 4, Federal Aid Project 573-B, Childress Co.

BIDS ASKED

California — July 13 by State Hy. Comn., Sacramento, rein.-con. girder bridge over Atchison, Topeka & Santa Fe Ry., 2 mi. south of Del Mar, San Diego Co. Bid call set for June 29 cancelled.

Florida—See "Streets and Roads."

Kansas—July 8, by State Hy. Comn., Ottawa, 125 ft. steel truss and twelve 30 ft. deck girder span viaduct, four 7 ft. slab span bridge extension, US 50S, Franklin Co. W. V. Buck, Topeka, engr.

Maine—July 5, by Hy. Comn., State House, Augusta, Huntley Brook Bridge, in Indian Twp., involving 299 yd. concrete—Knox Station Bridge over Haskell Stream, in Knox, 135 yd. concrete —Kelley Bridge, in Lubec, 251 yd. concrete—Bridge St. bridge, Limestone, 278 yd. concrete, 28,400 lb. structural steel—Rice Bridge, Trescott, 20 yd. concrete—White Bridge over Passagassawakeag River, Belfast, 500 cu.yd. concrete—Molunkus Bridge over Molunkus Stream, Macwahoc Plantation, 515 cu.yd. rein.-con., 182,000 lb. structural steel. $55,000 up.

Massachusetts—July 12, by Dpt. P. Wks., State House, Boston, rein.-con. bridges over Quinobequin and Chestnut Sts., steel arch over Center St., and steel stringer bridge under Parker St., in town of Wellesley and city of Newton. $50,000 or more. F. E. Lyman, State House, Boston, comr.

Maryland—See "Streets and Roads."

Miss., Lexington—July 15, by Bd. Supervs. Holmes Co., 100 ft. bridge with 16 ft. bents over Old Bayou, Dist. 5.

Mo., Independence—See "Streets and Roads."

Mo., St. Louis—July 26, by Bd. P. Serv., City Hall, foundations, reinforced concrete piers, abutments, approach fill for South Valley approach to railroad deck St. Louis Municipal Bridge over Mississippi River, incl. southerly double-track connection between eastern railroad approach to bridge and Illinois Transfer Railroad at 21st St., East St. Louis, Ill., $58,000; fabricating, delivering structural steel to be used in South Valley approach to St. Louis Municipal Bridge, $65,000. C. E. Smith & Co., 1752 Railway Exch. Bldg., consult. engrs.

New Jersey—July 18, by State Hy. Comn., Trenton, bridge across Shark River on Route 4 (1917) between F St., Belmar, and Main St., Avon, Monmouth Co. A. L. Grover, ch. clk. adv. E.N.-R. June 30.

Ohio—July 15, by O. W. Merrell, dir. hys., Columbus, 24 ft. span concrete slab bridge, 30 ft. roadway, Sect. "C" Ohio River Rd., Adams Co., $4,348—three 36 ft. span, concrete beam bridge, approaches, Sect. "E" Hamilton-Middletown Rd., Butler Co., $19,871 — 40 ft. span concrete beam bridge, Sect. "E" Bryan-Ft. Wayne Rd., Defiance Co., $6,857 —38 ft. span, concrete beam bridge over overflow of St. Josephs River and three 55 ft. span concrete beam bridge over St. Josephs River, Sect. "M" St. Josephs Rd., Williams Co., $42,933.

Okla., May—July 12, by State Hy. Dpt., Oklahoma City, 19 span, 370 ft. rein.-con. trestle, Beaver Co. $30,000. C. L. Wilson, state hy. engr.

Ont., Toronto—July 12, by W. J. Stewart, City Hall, mayor, 147 ft. single steel truss span bridge to have concrete abutments on wooden piles, involving 1,000 cu.yd. concrete, 275 tons steel, over Don River, Eastern Ave. $152,000. R. E. Harris, City Hall, engr. Noted Apr. 4.

CONTRACTS AWARDED

Ark., Myrtle—Missouri Pacific R. R. Missouri Pacific Bldg., St. Louis, Mo., E. A. Hadley, ch. engr., constructing bridge, own forces; furnishing 860 tons structural steel for same, to Stupp Bros. Bridge & Iron Co., 2800 Weber Rd., St. Louis, Mo.

California—State Hy. Comn., Sacramento, 2 steel stringer bridges with concrete decks over San Simeon Creek, 6 mi. south of San Simeon, 1 to have eight 42 ft. and three 20 ft. spans, other to have six 38 ft. and two 20 ft. spans, San Luis Obispo Co., to J. W. Terrell, 2765 Donner Way, Sacramento, $63,614. Noted June 9, under "Streets and Roads."

Calif., Eureka—Humboldt Co., bridge over South Fork of Eel River at Redway, to Smith Bros. Co., Eureka, $18,838; cable suspension bridge over Mattole river near Petrolia, to Helwig Constr. Co., Sebastopol, $6,729. Noted June 23.

Ill., Chicago — Comrs. Cook Co., widening, paving bridge at Wheeling, to Joliet Bridge & Iron Co., Joliet, $45,361.

Indiana—State Hy. Comn., Indianapolis, bridges over Little Sandy Creek, Big Branch, and over Big Sand Creek, Spencer Co., to A. G. Ryon & Sons, Chrisney, $23,930 and $18,709 respectively, est. $32,862 and $27,522 respectively.

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Kan., Humboldt — Allen Co., two 120 ft. span rein.-con. bridge over Neosho River, west of here, moving old bridge, constructing timber approaches, channel excav., to J. S. Vance & Son, Parsons. $29,172.

Minn., Baudette—W. Butler Co., V. W. O'Connor, 630 Hamm Bldg., St. Paul, 1,280 ft. concrete, steel bridge over Rainy River, to T. Jensen, St. Cloud. Est. $350,000. Noted Apr. 21.

Oklahoma—State Hy. Comn., Oklahoma City, 16 span 226 ft. and 4 span 66 ft. concrete bridges, Sharon, Woodward Co., to L. S. Fisher, Woodward, $21,012 and $3,437 respectively—2 span 160 ft. bridge, Cotton Co. and 12 span 196 ft. bridge Jefferson Co., to R. S. James, Cotton Exch. Bldg., Oklahoma City, $14,447 and $23,127, respectively—10 span 166 ft. bridge in Cotton Co., to D. C. Sampley, Sulphur, $16,580—4 span 64 ft. bridge, Jefferson Co., to E. L. Redwine, Covington, $3,173—4 span 68 ft. bridge, Jefferson Co., to W. S. Bellows, Oklahoma Savings Bldg., Oklahoma City, $5,574—2 span 160 ft. bridge in Major Co., to F. W. Woelke, Enid, $12,156. Grand total $99,506.

Oklahoma—State Hy. Dpt., Oklahoma City, bridges in Sarter Co., to Witt & Tatum, G. Grandfield, $24,959—Pawnee Co., to C. Schultz, 710 South Peoria St., Tulsa, $9,929—Beaver Co., to R. R. Tway, 710 East 19th St., Oklahoma City, $21,323—Creek Co., to Standard Paving Co., 2119 East 11th St., Tulsa, $11,084—Cotton Co., to Roberts & Fisher, Norman, $27,573. Grand total $94,868.

Oregon—State Hy. Comn., Portland, bridge over Abernathy Creek, to Odom & Durette, Salem, $25,391—removing old bridge over Wahanna Creek and constructing steel bridge over Santiam River, at Mehama, to Clackamas Constr. Co., Oregon City, $185 and $5,023 respectively—17 bridges, Lane Co., to C. J. Montag, Portland, $40,825—bridges, Umatilla Co., to R. H. Jones, Baker, $13,774—over Dawson Creek, Washington Co., to R. G. Barnes, Portland, $6,058—bridge Alternate A, Yamhill Co., to T. Lillebo, Reedsport, $16,540; Alternate B, to Bucrham & Green, Portland, $8,697—relining tunnel, to Enquist Constr. Co., Troutsdale, $2,312—maintenance storage, Klamath Falls, to R. R. Phelps, Klamath Falls, $1,860. Grand total $110,638. Noted June 23 Daily, under Street and Roads.

Pa., Sewickley—See "Streets and Roads."

Utah—See "Streets and Roads."

Ont., Englehart—Dpt. Northern Development, Parliament Bldgs., Toronto, general contract 802 ft. high level hy. bridge over Blanch River, Ferguson Hy., to Chatham Dredging & General Contg. Co. Ltd., 138½ King St., W., Chatham; structural steel, to Hamilton Bridge Co. Ltd., Bay St. N., Hamilton. Est. $100,000. Noted Mar. 24.

STREETS AND ROADS

BIDS ASKED

California—July 6, at office C. H. Purcell, state hy. engr., Sacramento, grading, concrete paving 6 mi. road between Barranca St. and Pomona, Los Angeles Co.; concrete paving 4.4 mi. road between Rose Canyon and Sorrento Creek, San Diego Co.

Colorado—July 6, by Bureau P. Roads, Denver, bituminous top surfacing 20.4 mi. Project I-A1 to E1 inclusive of North and South Hy., Mesa Verde Natl. Park, Montezuma Co. A. E. Palen, Custom House, Denver, engr.

Florida—July 12, at office State Road Dpt., Tallahassee, B. M. Duncan, state hy. engr., concrete paving 1.5 mi. Project 1094, Alachua Co. 0.9 mi. Project 1095, Leon Co.—double application surface treating existing limerock base 12.88 mi. Project 623, Madison Co—14.91 mi. Project 706-B, Putnam Co.—11 mi. Project 806C—12.69 mi. Project 806-D, both Hendry Co.—bridges. Project 918-B, Gadsden Co.—Project 977-B, Hardee Co.

Ill., Cairo—July 7, by Alexander Co., traffic bound surface course paving 3.805 mi. Sect. 2-G-M.F.T. — 2.32 mi. Sect. 7-G-M.F.T. — bridges on Sect. 6-B-M.F.T.

Ill., Vienna—July 6, by Johnson Co., traffic bound surface course paving 1.1485 mi. 3-M.F.T., 16 ft.

Indiana—July 12, by State Hy. Comn., Indianapolis, concrete, bituminous concrete, brick or asphaltic macadam paving roads in Daviess, Lake, Porter, Carroll, Howard, Jackson, Huntington, and Vermillion Counties, state will furnish cement on foregoing projects if concrete, brick or bituminous concrete is used; also grading, culverts, roads in Vigo, Dearborn, Dubois and Johnson Counties. J. J. Brow, dir.

Ind., Bloomfield—July 8, by Bd. Comrs. Greene Co. improving 3 roads. $27,500. H. Rollison, Bloomfield, co. aud.

Ind., LaPorte—July 5, by Bd. Comrs. LaPorte Co., improving Jacob Szynski Rd. $25,132. R. W. Leets, LaPorte, engr.

Ind., Newcastle—July 5, by Bd. Comrs. Henry Co., improving 2 roads. $25,700. J. R. Leakey, Newcastle, co. aud.

Ind., Rensselaer—July 5, by Jasper Co., improving 2 roads. $26,410. K. Allman, Rensselaer, co. aud.

Ind., Versailles—July 5, by Bd. Comrs. Rip Co., macadam paving 3 roads. $28,994. W. H Smith, Versailles, aud.

Iowa—July 5, by State Hy. Comn., Ame grading 16.622 mi. U. S. Rd. 20, F.A.P. 6 Hamilton and Hardin Counties — 1.4427 mi Primary Rd. 204, F-354, Decatur Co.—1.04 mi. Primary Rd. 145, P-798, Fremont Co— graveling 10.2 mi. Primary Rd. 3, F-300, Decatur Co.—15.76 mi. U. S. Rd. 169, P-61 Ringgold Co.—bridges on Road 4, B-659, Pa and Fremont Counties — Rd. 20, F.A.B. 6 Hamilton Co.—Rd. 20, F.A.B. 67, Hardin Co.— Rd. 10, F.A.B. 29, Wright Co.—Rd. 145, B-79 Fremont Co.—Rd. 218, F.A.B. 45, Mitchell C

Ia., Cedar Rapids—See "Contracts Awarded."

Ia., Cedar Rapids — July 7, by Linn Co crushed stone surfacing 17.81 mi. trunk an local county roads.

Ia., Corydon—July 5, by Wayne Co., gradin 1.596 mi. County Trunk Rd.

Ia., Indianola—July 13, by Warren Co., grading 12.36 mi. county trunk roads—1.23 mi local county roads—13 items concrete culvert extensions.

Ia., Osage—Mitchell Co., bids in July, grading, draining, primary roads. $800,000. G. P Goplèrud, Court House, co. engr.

Ia., Sibley—July 8, by Osceola Co., gradin 6.75 mi. local roads; graveling, resurfacin involving 45,625 cu.yd. gravel to crush, et and 336,609 units overhaul.

Ia., Waterloo—July 5, by Black Hawk Co grading 13.5 mi. county trunk road and 7 mi. local county road.

Kansas—July 8, by State Hy. Comn., Ottaw grading, culverts, concrete paving 0.862 mi. US 50S, Franklin Co. W. V. Buck, Topeka, engr

Kentucky — July 13, by State Hy. Comn Frankfort, grading, draining 5 mi. Winchester Irvine Rd., Clark Co.—4 mi. Marion-Providen Rd., Crittenden Co. — 6 mi. Mexico-Franci Dycusburg Rd., both in Crittenden Co.—9.5 mi Sandy Hook-Louisa Rd., Elliott Co.—4.7 mi Irvine-Winchester Rd., Estill Co.—3 mi. Paintsville-West Liberty (Mud Lick) Rd., Johnson Co.—1.4 mi. Chavies-Buckhorn Rd., Perry Co —10.2 mi. Somerset-London Rd., Pulaski Co.— 3.9 mi. Cropper-Elmburg-New Castle Rd., Shelby Co.

Maine—July 5, by State Hy. Comn., Augusta, rein.-con. paving 1.43 mi. State Project "J," Dexter, 20 ft. $25,000 up.

Maryland—July 5, by State Roads Comn., G. C. Uhl, chn., Baltimore, concrete shoulders 14.42 mi. Contr. T-50-211, Talbot Co.—macadam and substructure for bridge, 1.94 mi. Contr. W-112-62, Washington Co.—furnishing, laying bituminous surface course 7.44 mi. Contr. G-76-3-611, Garrett Co.—1.23 mi. Contr. H-149-2-411, Harford Co.—0.54 mi. Contr. P-220-1-311, Prince George's Co.—3.19 mi. Contr. Wo-122-1-111, Worcester Co.—bridge, Contr. F-167-57, Frederick Co. — bridge, Contr. P-211-37, Prince George's Co.

Md., Baltimore—July 6, by Bd. Awards, curbing, concrete paving 12,400 streets listed in Contr. 627.

Mass., Boston—July 5, by J. A. Rourke, comr. P. Wks., City Hall, sheet asphalt or bitulithic paving Chestnut Hill Ave. from Commonwealth

Michigan—July 6, by J. T. Sharpensteen, div. engr., Escanaba, shaping, concrete paving 10.931 mi. FO17-27C-2 and FO49-17C-2, Chippewa and Mackinac Counties, for State Hy. Comn., Lansing.

Michigan—July 7, by A. L. Burridge, div. engr., Cadillac, shaping, concrete surfacing 4.305 mi. FO65-18C-2, Ogemaw Co.; 9.439 mi. FO6-20C-2, Arenac Co., for State Hy. Comn., Lansing.

Minnesota—July 19, by State Hy. Dpt., St. Paul, bituminous macadam paving 14.5 mi. State Project 2-32, Sect. 1, Div. B and S.P. 2-32, Sect. 2—13 mi. S.P. 4-31, Divs. A and B —10 mi. S.P. 6-39—1, S.P. 6-30—10 mi. S.P. 9-25, Div. B, S.P. 9-21-1 and S.P. 9-21, Sect. 2, Div. A—grading 8.7 mi. S.P. 8-49—6.8 mi. S.P. 19-25, Div. B.

Mo., Clayton—July 9, by St. Louis Co., Court House, grading, draining, paving Brown Rd. from Woodson Rd. to Midland Blvd. R. Jablonsky, Court House, co. engr.

Mo., Independence—July 5, by Jackson Co., Court House, grading, concrete paving, bridging 0.267 mi. R. D. Mize Rd., Stayton & Veatch, 508 Interstate Bldg., Kansas City, consult. engrs. L. E. Koehler, co. engr.

Mo., St. Louis—See "Bridges."

Mo., University City—July 6, by E. L. Burns, city clk., grading, draining, curbing, concrete paving Cornell Ave. from North and South Rd. to Benlou Ave. W. Heimbuecher, city engr.

Neb., West Point—July 14, by City Clerk, grading, relaying brick and concrete paving 17,081 sq.yd. $50,000. Nixon & Reynolds, 309 Omaha Grain Exch., Omaha, engrs.

New Jersey—July 11, by State Hy. Comn Trenton, grading, 9 in. rein.-con. paving 60.7 sq.yd. Route 26, Sects. 4A-5A, and Route S- Monmouth Junction to Cranbury Turnpike, M

Streets and Roads (Continued)

dlesex Co. A. L. Grover, ch. clk. Adv. E.N.-R., June 30.

New York—July 6, by Westchester Co. Park Comn., White Plains, grading, sidewalks, walls, concrete paving 3,850 sq.yd. Ossining, Bedford and Manville Rds., Pleasantville. J. Downer, White Plians, engr. Adv. E.N.-R., June 30. Noted June 16.

N. Y., Mount Vernon—July 7, by Westchester Co. Park Comn., Court House, White Plains, paving portions Cross County Parkway, Mount Vernon and Eastchester. J. Downer, White Plains, co. engr.

N. Y., Brooklyn—July 7, by H. Hesterberg, pres. Brooklyn Boro, Boro Hall, grading, curbing, flaggihg Village Rd., triangle bounded by 24th Ave., Dahill Rd. and 62nd St., and East 89th St.—asphalt paving by heater method Avenue D, St. Paul Court, Park, Sterling and St. Pauls Pls., Bedford, Lefferts, Newkirk, Ditmas, Woodruff, and 13th Aves., East 25th St., Kane and 64th Sts.—sheet asphalt on concrete paving Rutland Rd., Elmore Pl., Dewitt, New Jersey, Ovington, Schenectady Aves., 84th, 49th, Sutton, East 7th Sts.

Ohio—July 15, by O. W. Merrell, dir. hys., Columbus, grading, draining, concrete paving 2.824 mi. Sect. "C" Ohio River Rd., Adams Co., $80,189—0.557 mi. Sect. "Willard," Willard-Eastern Rd., Huron Co., $18,776—0.891 mi. Sects. "C" and "Woodsfield," Woodsfield-Clarington Rd., Monroe Co., $23,487—0.982 mi. Sect. "A" Port Clinton-Bay Bridge Rd., Ottawa Co., $21,833—0.331 mi. Sect. "Fostoria" Lima-Sandusky Rd, Seneca Co., $13,955—0.79 mi. Sect. "Perrysburg" Fremont-Perrysburg Rd., Wood Co., $40,228—concrete paving 2.012 mi. strip, Sects. "B," "C" and "D," Cleveland-Meadville Rd., Cuyahoga Co., $56,468 — grading, draining, brick paving, except brick 4.311 mi. Sect. "W" Ohio River Rd., Brown Co., $137,407, furnishing, delivering brick for same, $53,926—0.185 mi. Sects. "J" and "E" Hamilton-Middletown Rd., Butler Co., $5,194, furnishing, delivering brick for same, $2,000 — 0.895 mi. Sect. "Chagrin Falls" Chagrin Falls-Greenville Rd., Cuyahoga Co., $25,703, furnishing, delivering brick for same, $4,561—relaying existing brick paving and filling in with new brick, except brick 4.029 mi. Sect. "B" Columbus-Wooster Rd., Franklin Co., $90,216, furnishing, delivering brick for same, $38,929—grading, brick paving, except brick 2.594 mi. Sects. "A" and "I" Logan-Athens Rd., Hocking Co., $56,068, furnishing, delivering brick for same, $27,739 — grading, draining, storm and sanitary sewers, sidewalks, brick paving, except brick 0.689 mi. Sect. "Canton" Canton-New Franklin Rd., Stark Co., $88,876, furnishing, delivering brick for same, $24,147 — grading, draining, bituminous macadam paving 0.565 mi. Sect. "Monroeville West" Bellevue-Norwalk Rd., Huron Co., $12,797—6.005 mi. Sect. "S" Columbus-Sandusky Rd., Marion Co., $61,391.

Oklahoma—July 12, by State Hy. Dpt., Oklahoma City, grading, drainage 11 mi. U. S. Hy. 270 east from Texas Co. line and 11.1 mi. U. S. Hy. 270 west of May, both Beaver Co., 32 ft. wide. $65,000. C. L. Wilson, state hy. engr.

Pennsylvania—July 8, at office of S. S. Lewis, secy. hys., Harrisburg, improving hys. and bridges in Centre, Erie, Franklin, Huntingdon, Union, Westmoreland, Indiana, Wyoming, Luzerne and York Counties.

Pa., Kane—July 5, by T. M. Paisley, secy., Cohn Bldg., macadam on slag base paving 3,000 ft Haines and Pine Sts., 18 ft. $25,000. W. O. Mason, Old Post Office, Warren, engr.

Pa., Versailles—July 5, by R. A. Jack, secy., Municipal Bldg., concrete paving 5,000 sq.yd. Washington St. $25,000. R. C. Bayne, 502 5th Ave., McKeesport, engr.

South Dakota—July 7, by State Hy., Comn., Pierre, grading, concrete paving 1.146 mi. F.A.P. 271, Minnehaha Co.—oiling 8.781 mi. F.A.P. 22, Reopened, Day Co.—17.363 mi. F.A.P. 36, Reopened Turner Co.—10.869 mi. F.A.P. 46-R, Hamlin Co.—11.613 mi. F.A.P. 129, Reopened, Turner Co.—grading 8.724 mi. F.A.P. 22, Reopened—2, Day Co.—12.224 mi. F.A.P. 24, Hanson Co.—5.228 mi. F.A.P. 62, McCook Co.—11.575 mi. F.A.P. 272-A, Buffalo Co.—9.365 mi. F.A.P. 272-B, Brule Co.—graveling 17.946 mi. F.A.P. 185-E, Reopened—14.358 mi. F.A.P. 185-C, Reopened, both Lyman Co.—9.803 mi. F.A.P. 201C, Buffalo Co.—11.902 mi. F.A.P. 260-A and B, Hughes Co.—resurfacing 10.996 mi. F.A.P. 57 and 157, Jones Co.—6.811 mi. F.A.P. 139, Roberts Co.—23.513 mi. F.A.P. 165-B, Lyman Co.—25.098 mi. F.A.P. 172-C, Walworth Co.—29.39 mi. F.A.P. 173-A, B and C, Faulk Co.—32.003 mi. F.A.P. 178-B and 210-A, Bone H-Hutchinson Co.—18,255 mi. parts F.A.P. 182-A and 38 Jerauld Co.—15.563 mi. F.A.P. 193-A, Brookings Co.—8.141 mi. F.A.P. 196-B, Aurora Co.—8.605 mi. S.A.P. 1, Brown Co.—15.987 mi. S.A.P. 43, Mellette Co.—bridges in Burk, Buffalo and Minnehaha Counties. G. H. Henry, secy.

Tennessee—July 8, by State Hy. Dpt., Nashville, paving 5.223 mi. Federal Aid Project 80-E, Wilson Co., Part 2: 2.068 mi. Hy. 24, Federal Aid Project 80-H, Davidson Co. R. H. Baker, hy. comr.

Tex., Victoria — July 5, by E. J. Blackert, mayor, at office J. D. Sneirr, city secy., rein.-con. paving 2,720 sq.yd. South Moody St., E. F. Miles, city engr.

Utah—July 6, by State Rd. Comn., Salt Lake City, grading, graveling 15,000 cu.yd. Salt Lake-Ogden Hy., Davis Co. H. S. Kerr, state road engr.

Virginia—July 12, by Dpt. Hys., Richmond, graveling 0.359 mi. Route 22, Project S196GB1, Craig Co.—macadam paving 5 mi. Routes 33 and 812, F600DEB4, Augusta Co. — 5.9 mi. Route 32, Project S6772ACB1, Culpeper Co.—soiling 0.74 mi. Route 420, Project S681CB1, Hanover Co.—1 mi. Route 435, Project S711D, Charles City Co.—0.65 mi. same route Project S711C, Prince George Co.

Washington—July 6, by S. J. Humes, dir. State Hys., Olmypia, bituminous surfacing 42 mi. Tonasket to Republic, Okanogan and Ferry Counties—12 mi. road Republic to Forest Boundary, Ferry Co.—8 mi. Wilber N., Lincoln Co.—concrete paving 3.1 mi. State Rd. 5, Yakima Co.—grading, crushed stone surfacing 14,280 cu.yd. State Rd. 8, Skamania Co.

Washington—July 12, by S. J. Humes, dir. Hys., Olympia, concrete paving 3 mi. State Rd. 2, Lincoln Co.—bituminous surfacing 10.6 mi. State Rd. 2, Lincoln Co.—17 mi. state Rd. 3, Ferry Co.—constructing 445 ft. bridge over South Fork Skykomish River—180 ft. bridge over Pilchuck River, Island School North Sect. State Rd. 1, both Snohomish Co.

Washington—July 19, by S. J. Humes, dir. Hys., Olympia, concrete paving 2.3 mi. State Rd. 2, F.A.P. 182-A, Spokane Co.—1 mi. State Rd. 3, Division St., Spokane, Spokane Co.—grading, concrete paving 1.5 mi. State Rd. 5, King Co.—rein.-con. undercrossing 46th St. on Aurora Ave., Seattle, King Co.

Wash., Mount Vernon — July 6, by Comrs. Skagit Co., relocating old road and concrete paving 2.5 mi. Burlington-Sedro Woolley Rd. R. E. L. Knapp, Mt. Vernon, co. engr. Noted June 16.

Wash., Seattle—Comrs. King Co., bids in July, grading, concrete paving 1.25 mi. 35th Ave. S. W. extension to 100th St. $25,000. T. D. Hunt, Seattle, co. engr.

Wash., Vancouver—July 15, by Comrs. Clark Co., concrete paving 2.3 mi. Lateral Highway 20. C. Deako, Vancouver, co. engr. Noted May 19.

Wis., Madison—July 6, by Dane Co. Hy. Com., gravel or crushed rock surfacing 0.8 mi. Project 724-27, Springdale — 1.5 mi. Project 725-27, Springdale—3 mi. County Gang Maintenance 222 Trunk G—4 mi. County Gang Maintenance 226—1 mi. County Gang Maintenance 228—2.25 mi. Project 694-24, Primrose—800 cu.yd. ditching County Gang Maintenance 203, Sect. 7, Dane; graveling 4,100 cu.yd. Project 705-04, Blooming Grove—1.3 mi. Project 687-10, Cross Plains—1.1 mi. Project 729-10, Cross Plains—0.7 mi. Project 730-10, Cross Plains—0.5 mi. Project 567-16, Madison. J. R. Caldwell, comr.

CONTRACTS AWARDED

Arizona—State Hy. Comn., Phoenix, grading, draining, subgrade stabilizer 8.2 mi. Coconino Co., to H. L. Royden, P. O. Box 865, Phoenix, $53,389. Noted June 6.

California—J. H. Skeggs, dist. engr. State Hy. Comn., San Francisco, bituminous treated treating rock borders between Gilroy and Pajaro River, and fuel oil treating earth shoulders as dust palliative, 5.7 mi. road between Gilroy and Pajaro River, Santa Clara Co., to Pacific Truck Service, Inc., 646 Park Ave., San Jose, $2,958—grading, concrete paving 1.7 mi. road between Swingle and Yolo Causeway, Yolo Co., to D. MacDonald, 204-23rd St., Sacramento, $55,482—fuel oil treating earth shoulders and portions road bed road between Corona and Orange Co. Line, Riverside and San Bernardino Counties, to Southwest Paving Co., 712 Lankershim Bldg., Los Angeles, $38,141. Grand total $96,581. Noted May 26.

California — State Hy. Comn., Sacramento, grading, bituminous treated crushed gravel or stone surfacing 9.7 mi. hy. between Cambria and point 1 mi. north of San Simeon, San Luis Obispo Co., to Granite Constr. Co., Bin No. 9, Watsonville, $144,687; oiling as dust palliative 30.6 mi. hy. between Democrat Springs and Weldon, Kern Co., to Western Motor Transfer Co., 118 State St., Santa Barbara, $10,321. Noted June 9.

Calif., Los Angeles—Bd. P. Wks., City Hall, grading curbing, guttering, sewers, lighting conduits curb armor, sidewalks, 6 in. concrete base, 6 and 8 in. concrete paving 265,321 sq.ft., oil surfacing 225,693 sq.ft. 98th St., to Griffith Co., L. A. Railway Bldg., $74,995. Noted May 5.

Connecticut—J. A. Macdonald, state hy. comr. Hartford, loose gravel surfacing 15,630 ft. Cornwall, to John de Michael & Bros., 58 High St., South Torrington, $10,876—2¼ in. bituminous macadam on 7 in. trap rock base paving 380 ft. Westport, to Bridgeport Constr. Co., 35 Milne St., Bridgeport, $1,131—rolled bank run gravel surfacing 9,531 ft. Lebanon and loose gravel surfacing 4,750 ft. Conventry, to C. Squatriglia & Sons, 173 Sherman Ave., Waterbury, $9,239 and $9,287 respectively—rolled bank run gravel surfacing 7,112 ft. Hebron, to Barrett Bros., 380 East Main St., Stratford, $6,564—trap rock waterbound macadam paving 5,723 ft. Meriden, to L. Suzio Constr. Co., 98 State St., Meriden, $10,814. Grand total $47,902. Noted June 2.

Idaho—G. E. McKelvey, comr. P. Wks., Boise, grading, crushed graveling 20.549 mi. Twin Falls Co., to W. Hoops, Twin Falls, $31,089. Est. $48,591.

Idaho—State Hy. Comn., Boise, oiling 13 mi. North and South Hy. between Genesee and Thom Creek and 20 mi. between Winchester and Cottonwood, to J. Casson, Hayward, Calif., $24,490—13 mi. between Caldwell and Parma and 8.9 mi. between Meridian and Kuna, to Morrison Knudsen Co., Boise, $18,179—graveling 24 mi. Palouse Hy., to Triangle Constr. Co., 1220 Ide St., Spokane, Wash., $32,804. Grand total $75,473.

Idaho — G. E. McKelvey, comr. P. Wks., Boise, grading, graveling and oil processing roadbed 26.086 mi. Bonneville and Jefferson Counties, to O. Nelson, Logan, Utah, $86,513. Est. $111,232.

Idaho—State Hy. Comn., Boise, grading, crushed rock surfacing 24.187 mi. Palouse Hy., Benewah and Kootenai Counties, to Triangle Constr. Co., Spokane, Wash., $32,804. Est. $34,265.

Idaho — State Hy. Comn., grading, crushed graveling 3.318 mi. Yellowstone Park Hy., Madison Co., to Green River Lumber Co., Green River, Wyo., $16,249. Noted May 12.

Ill., Carlinville—Macoupin Co., to M. C. Robinson, Girard, grading 4.0168 mi. S.A.R. 13, Sect. 5A-MFT, $9,872; 3.963 mi. same road Sect. 7A-MFT, $8,595; 45 ft. steel I-Beam bridge and box culvert, same road, Sect. 5B-MFT, $6,422—to H. M. Johnson Constr. Co., Mount Olive, grading 3.882 mi. State Aid Route 12, Sect. 8A-MFT, $11,602—to Madison Constr. Co., Edwardsville, two 50 ft. span rein.-con. deck girder bridge on S.A.R. 6, Sect. 6B-MFT, $13,661. Grand total $50,152.

Ill., Edwardsville—Madison Co., concrete paving 3.71 mi. State Aid Route 6, Sect. 54-15d, and 0.99 mi. State Aid Route 6, Sect. 56-15d, to Madison Constr. Co., Edwardsville, $78,232 and $14,698 respectively.

Ill., Freeport—Stephenson Co., graveling 7 mi. State Aid Route 6, Sect. 12 MFT, 20 ft. to E. F. Gallagher, Oregon, Wis., $36,308.

Ill., Mount Vernon—Jefferson Co., grading, surfacing 6.007 mi. State Aid Route 10, Sect. 5-MFT, 16 ft. wide, and surfacing with 7 ft. earth shoulders on 2.8427 mi. State Aid Route 7, Sect. 6-MFT, to W. O. Whitsell, Mount Vernon, $29,173 and $13,170 respectively.

Ill., Shelbyville—Shelby Co., grading 13.2088 mi. Sect. OA-MFT, to H. Riley, Shelbyville, $26,736.

Indiana—State Hy. Dpt., Indianapolis, grading 3.908 mi. Fountain Co., to McGrath Constr. Co., Naperville, Ill., $18,672 est. $24,018; 1.881 mi. Project F.A. 148A, Franklin Co., to Ace Constr. Co., Norwood, O., $26,995 est. $37,711. Noted May 5.

Indiana — State Hy. Comn., Indianapolis, asphaltic macadam paving 4.279 mi. Rush Co. and 3.901 mi. Madison Co., to W. J. Nees Co., Mishawaka, $58,248 and $61,515 respectively—2.418 mi. Fulton Co., to R. Daoust, Defiance, O., $33,813—11.478 mi. Wayne Co. and 11.40 mi. Delaware and Henry Counties, to W. D. Vogel, 506 Inland Bank Bldg., Indianapolis, $142,738 and $126,296 respectively—8.461 mi. Lawrence Co. and 0.256 mi. Jackson Co., to U. R. Price & Co., Bloomington, $155,764 and $116,318 respectively—6.523 mi. Spencer Co., to Robinson Gregory Co. and Hart & Hart, Columbus, $106,908—2.457 mi. Fountain Co., to W. E. Allen, Hillsboro, $20,361—7.263 mi. Owen Co., to G. L. Brantley, Winchester, Ky., $105,006. Grand total $926,966. Noted May 5.

Indiana—State Hy. Dpt., Indianapolis, grading, concrete paving 62,780 sq.yd. Lagrange Co., to Tri-Lake Constr. Co. Columbia City, $64,209 est. $92,229—brick repaving Project 78F, Sullivan Co., to J. A. Shepherd Co., Terre Haute, $74,707 est. $98,627—bridge over Turkey Run, Parke Co., to Mustard Curry Building Corp., Bloomington, $32,658 est. $53,000. Grand total $171,574. Noted May 5.

Ind., Madison—Jefferson Co., improving 4 roads, to Avery & Fairbanks, Adams, $13,828; to Dryden Bros., Dupont, $11,525. Est. exceeds $30,000.

Ind., Portland—Jay Co., improving roads, to Walter Swhier, Portland, $11,900; and to Heston Bros., Ridgeville, $11,000. Est. exceeds $25,000.

Iowa—State Hy. Comn., Ames, to M. M. Beard, Knoxville, P. M-920, Marion Co. $1,777—to W. T. Kelley, Des Moines, P. M-921, Warren Co. $2,587; P. M-923, $7,879; P. M-925, Union Co. $3,984; P. M-927, Wayne Co. $1,782; P. M-928, Ringgold Co. $3,096 — to M. O. Weaver, Iowa Falls, P. M-924, Lucas Co. $4,611—to G. Jordan, Centerville, P. M-926, Appanoose Co. $4,526; P. M-927, Wayne Co. $1,365—to Sargent Bros., Des Moines, P. M-928, Ringgold Co. $3,346. Grand total $34,953.

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Streets and Roads (Continued)

Iowa—State Hy. Comn., Ames, to M. Munson & Sons, Boone, maintenance graveling P. M-127, Boone Co. $2,160—to Kaser Constr. Co., Adel, same project $1,199; P. M-129, Dallas Co. $3,415; P. M-130, Greene Co. $873—to Lynch Constr. Co., Des Moines, P. M-128, Carroll Co. $1,681; P. M. 132, Jasper Co. $1,720; P. M-133, Marshall Co., $7,470; P. M-135, Poweshiek Co. $2,615—to Ferguson & Diehl, Dana, P. M-129, Dallas, $1,533; P. M-130, Greene Co. $7,735—to Kibbey & Foulke, Carlisle, P. M-132, Jasper Co. $17,928—to Nelson & Melohn, Nevada, P. M-133, Marshall Co. $2,559; P. M-136, Story Co. $5,933—to Erwin Clark, Des Moines, P. M-134, Polk Co. $6,186—to Dane Co., Iowa City, P. M-135, Poweshiek Co. $12,480—to E. D. Wahl, Victor, P. M-129, Dallas Co. $2,635; P. M-136, Story Co. $2,366. Grand total $80,488. Noted June 9.

Iowa—State Hy. Comn., Ames, paving 7.967 mi. Ida Co., to Nolan Bros., 18 North 2nd St., Minneapolis, Minn., $113,878—road in Black Hawk Co., to O. Olson Constr. Co., Waterloo $1,885—0.26 mi. road in Lee Co., to Cameron, Joyce Co., Keokuk, $5,114—12.051 mi. Wright Co., to Carlson Constr. Co., Marshalltown, $147,562—grading 8.305 mi. Delaware-Dubuque Counties, to T. Ryan & Son, Missouri Valley, $28,967—graveling 14.26 mi. Cherokee Co., to Evans Constr. Co., Early, $4,262—14.2 mi. Ida, Monona and Woodbury Counties, to W. J. Haubrick Constr. Co., Mapleton, $5,354—5.25 mi. Marion Co., to Harvey Sand & Gravel Co., Harvey, $8,374—6.31 mi. Osceola Co., to C. A. Emery, Coon Rapids, $1,687—1,000 tons riprap stone in place, Buchanan Co., to J. B. Elliott, Independence, $2,440—culverts, Appanoose and Wayne Counties, to C. W. Boltz, Des Moines, $2,350—in Boone and Lucas Counties, to B. Cole & Son, Ames, $8,260 and $11,957 respectively—in Delaware and Dubuque Counties, to Waugh & Tackman, Clarksville, $9,947—bridges, Wright Co., to Iowa Bridge Co., 1901 Easton Blvd., Des Moines, $7,299 — bridge, Wright Co., Hildebrand & Kragh, Belmond, $2,842—62,000 gal. bituminous surfacing material in Polk Co. and 24,300 gal. bituminous material Cerro Gordo Co., to Ketchum Constr. Co., Des Moines, $780 and $365 respectively. Grand total $363,323. Noted June 16.

Ia., Atlantic—Cass Co., grading road, to J. W. Peed & Son, Fort Dodge, $22,770; bridge, 21 culverts, to F. O. Akin, Corning, $16,250.

Ia., Cedar Rap'ds—Linn Co., grading, installing corrugated culverts on 4.835 mi. Project N, Marion and Monroe Twps., and 3.706 mi. Project O, Monroe Twp., force account. W. H. Behrens, Court House, co. engr.

Ia., Chariton—City, 18,830 cu.yd. maintenance gravel or crushed rock, 6,205 cu.yd. maintenance crushed mine shale in various parts Dist. 9, to M. M. Beard, Knoxville, $1,777—to W. T. Kelley, Des Moines, $19,327—to M. O. Weaver, Iowa Falls, $4,611—to G. Jordan, Centerville, $5,892—to Sargeant Bros., Des Moines, $3,346. Grand total $34,953.

Ia., Cherokee—Cherokee Co., graveling road, to Hartsell & Evans, Early, $37,998.

Ia., Clinton—Clinton Co., graveling roads, to Lynch Constr. Co., Des Moines, $26,450; to Clinton Eng. Co., Clinton, $1,770; bridges, to O. Olson Constr. Co., Waterloo, $9,740. Grand total $37,960.

Ia., Council Bluffs—Pottawattamie Co., grading 6 mi. road, to E. J. Wilson & Son, Omaha, Neb., $13,312; channel change, to F. D. Collins, Honey Creek, $420; culverts and bridges, to Wickham Bridge & Pipe Co., Council Bluffs, $33,750. Grand total $47,482. Noted June 2 Daily.

Ia., Dubuque — Dubuque Co., crushed rock surfacing 11.25 mi. Farley Cascade Rd. and 5.5 mi. Sherrill-Sageville Rd., to Krysan & Cremer Constr. Co., Calmer, $11,138 and $2,460 respectively—60 x 18 ft. pony truss span bridge, to J. F. Lee Paving Co., Dubuque, $3,740—8 concrete culverts, to F. Russell & Son, Waukon, $3,500. Grand total $20,838. Noted May 26.

Ia., Eldora—Hardin Co., graveling roads, to R. Cook, Nevada, $10,869; to R. Chitty, Fernald, $11,770; and to A. J. Jones, Radcliffe, $1,441. Grand total $24,080.

Ia., Keosauqua — Van Buren Co., grading roads, to A. C. Rauenbuehler, Keokuk, $15,900; 11 box culverts, 1 arch bridge, 3 pipe culverts, to G. Jordan, Centerville, $10,698.

Ia., Newton—Jasper Co., grading roads, to F. I. Braden, Elliott, $16,999; to Mobray & Saddlemire, Waterloo, $21,015.

Ia., Orange—Sioux Co., graveling 26.285 mi. trunk and local roads, to H. Kamminga, Boyden, $13,603; grading 3.5 mi. road from Fairview, S. D., east to Road 18, to P. Betz, Sioux City, $5,437. Noted June 2.

Ia., Toledo—Tama Co., gravel surfacing on 64 mi. trunk and local roads, 2,400 cu.yd. rock, to DeWeiss & Whitney, Springville, $3,960—3,300 cu.yd., to Clemmann Motor Co., Gladbrooke, $5,115—2,000 cu.yd. gravel, to R. Cook, Nevada, $3,280—1,400 cu.yd. rock, to Lynch Constr. Co., Des Moines, $2,653—8,700 cu.yd. gravel, to W. T. Kelley, Des Moines, $13,782—corrugated culverts, to Iowa Pipe & Culvert Co., Des Moines, $2,721. Grand total $31,511. Noted June 9.

Ia., Waterloo—Black Hawk Co., surfacing roads, to Beu & Son, Sumner, $15,396; and to Waterloo Dredging Co., Waterloo, $7,806.

Kansas—State Hy. Comn., St. John, to B. Metzger, Ozawkie, sand gravel surfacing 10 mi. 19-3-K1354, Pawnee Co., $1,620; 10 mi. 19-4-K1355, $3,180; 13 mi. 8-9-K13356, $3,380; 6 mi. 8-0-K1357, $412, all foregoing in Stafford Co. Grand total $8,592. Noted June 9 Daily.

Kansas—State Hy. Comn., Oberlin, to Smith Bros. Constr. Corp., 800 Walsix Bldg., Kansas City, Mo., sand gravel surfacing 6.097 mi. P.83-17-7624, $2,025; 15.4 mi. P.83-18-7625, $4,651; 11 mi. P.36-6-7627, $5,214; 19.5 mi. P.36-7-7628, $7,683, all foregoing Decatur Co.; 13.3 mi. 36-12-7630, Phillips Co., $5,666; 2.3 mi. P.36-13-7629, Smith Co., $994; 10.3 mi. P.36-8-7631, Norton Co., $4,594—to M. W. Watson, Topeka, 8.977 mi. P.40N-6-7626, Thomas Co., $3,520. Grand total $34,347. Noted May 26.

Kan., Mound City—Linn Co., grading culverts, chat surfacing 17 mi. Centerville-Pleasanton Rd., own forces. $85,000. C. E. Kenney, Court House, Mound City, and Kansas Eng. Co., 601 Kansas Ave., Topeka, engrs.

Kentucky—State Hy. Dpt., Frankfort, to Cumberland Constr. Co., Burkesville, grading, draining 7.6 mi. Metcalfe Co., $44,318; 8.617 mi. Monroe Co., $28,081; 2.942 mi. Clinton Co., $12,238—to R. F. Pryor & Co., Mayfield, 6.123 mi. Fulton Co., $28,751—to E. A. Wood & Co., Cotton States Bldg., Nashville, Tenn., 12.034 mi. Grant Co., $113,625—to K. V. Johnson, Iuka, 6.024 mi. Livingston Co., $30,918—to Corum Bros., Madisonville, 3.005 mi. McLean Co., $14,952—to Cundiff & McDowell, Somerset, 3.626 mi. Russell Co., $8,236—to Lewis & Kelly Constr. Co., Harlan, 5.622 mi. Whitley Co., $81,972—to Blair & Franse Constr. Co., Lexington, gravel surfacing 5.718 mi. McLean Co., $18,058—to Bratcher & Burdette, Berea, traffic bound limestone surfacing 9.358 mi. Cumberland Co., $26,352—to N. E. Stone, Madisonville, rein.-con. paving 12.72 mi. Trigg Co., $169,911. Grand total $577,412. Improving Bardstown-Louisville Rd. from Bardstown to Cox's Creek, S.P. 3-AGS, Nelson Co., by state forces. Rejected bids improving Somerset-London Rd., F.A. 195-BG, Pulaski Co. Noted May 5 Apr. 28.

Maryland—State Roads Comn., Baltimore, G. C. Uhl, chn., concrete paving 1.7 mi. Contr. G-67-62, Garrett Co., to Roberts Paving Co., Salisbury, $45,277. Noted Mar. 10.

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, concrete paving 1.88 mi. Contr. S-55-12, Somerset Co., to Hanneman-Burroughs Co., Salisbury, $25,371. Noted May 26.

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, macadam paving 0.76 mi. Contr. B-252-42, Baltimore Co., to H. E. Gosnell Co., Frederick, $11,322. Noted June 23.

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, concrete paving 1.19 mi. Contr. Q-82-22, Queen Anne Co., to Phillips Bros., Salisbury, $12,534. Noted May 19.

Maryland—State Roads Comn., Baltimore, G. C. Uhl, chn., concrete shoulders, concrete paving 3.32 mi. Contr. AA-135-711, Anne Arundel Co., to P. Reddington & Son, 2 East Lexington St., Baltimore, $58,189. Noted May 5.

Maryland—State Roads Comn. G. C. Uhl, chn., Baltimore, concrete paving 1.67 mi. Contr. F-190-52, Frederick Co., to L. R. Waesche & Sons, Thurmont, $51,571. Noted May 12.

Maryland—State Roads Comn., G. C. Uhl, chn., Baltimore, concrete paving 0.67 mi. Contr. M-214-35, Montgomery Co., to D. Marine, 2 East Lexington St., Baltimore, $18,556. Noted May 19.

Md., Baltimore—Bd. Awards, concrete paving 12,500 sq.yd. Contr. 622, to Mahoney Bros., 1111 Rutland Ave., $19,028. Noted June 9.

Md., Baltimore—Bd. Awards, concrete paving 12,000 sq.yd. streets listed in Contr. 620, to Harry T. Campbell & Sons Co., Towson, $18,728; 12,000 sq.yd. streets in Contr. 617, to Mahoney Bros., 1111 Rutland Ave., $18,994. Noted June 2.

Mass., Boston—Dpt. P. Wks., City Hall, bitulithic paving Yarmouth, West Canton, Holyoke and Wellington Sts., Braddock and Claremont Parks, to Charles Struzziery Co., 115 Kittredge St., $33,096.

Minnesota—State Hy. Dpt., St. Paul, paving 187,500 sq.yd. S.P. 9-40, Sects. 2 and 3, to Interstate Contg. Co., 2364 Hampden Ave., St. Paul, $164,318—129,000 sq.yd. S.P. 12-27, Sects. 4 and 5, Div. A, to A. Guthrie & Co., Builders Exch., St. Paul, $117,501—190,100 sq.yd. S.P. 17-28, 17-21, and 17-27, Div. A, to Anderson & Son, 100 North 7th St., Minneapolis, $232,180—grading 10.1 mi. S.P. 6-5, Sect. 3, to A. Rike, Madison, $23,163—8.8 mi. S.P. 18-24, Divs. A and C, to Zontelli Bros. and Fraser Bros., Palisade, $92,179 — 4 mi. S.P. 25-28, Sect. 2, to Olivia Constr. Co., Olivia, $22,655—7.3 mi. S.P. 66-21, Sect. 5, to Lobnitz Bros., Willmar, $42,402 — 13.4 mi. S.P. 70-23 Boelter Bros., New Ulm, $27,765. Grand total $722,163. Noted June 2 and 9.

Minn. St. Paul—C. A. Carlson, city pu agt., paving West 6th St., to Fielding & Shep 216 University Ave., $37,100. Noted Apr.

Mo., Independence — Jackson Co., grading, concrete paving 6.732 mi. Courtney Rd., to A. A. Davis, Cotton Grain Exch. Bldg., Oklahoma City, Okla., $185,594—3.747 mi. Sterling Ave. to W. A. Ross Constr. Co., 25th and Sum Sts., Knasas City, $96,404; bridge on Sterling Ave. and bridge over Alton R.R. on Nolan St. to Bushman-Nelson, Kansas City, Kan., $4 and $4,060 respectively. Grand total $290 Noted June 16.

Mo., Kansas City—City, 8 in. concrete paving Wornell Rd., to D. T. Krosnahan, City B Bldg. Est. $50,000. Noted June 2.

Mo., St. Louis—Bd. P. Serv., City Hall, asphalt paving 4,720 sq.yd. Enright Ave. from Taylor St. to Walton Ave. and 4,690 sq.yd. Enright Ave., from Walton Ave. to Kingshighway, to Asphalt Paving Co. of St. Louis, [illegible] Sublette Ave., $22,755 and $31,116 respectively—550 sq.yd. cutoff at Jefferson and Cass Aves., to Flinn Paving Co., 1405 South 1st St., $3,041—warrenite bitulithic paving 12,515 sq.yd. Sheridan Ave., to Granite Bituminous Paving Co., Railway Exch. Bldg., St. Louis, $78,915. Grand total $135,827. Noted May 26.

Mont., Butte—Silver Bow Co., J. J. Harrington, clk., 12,200 sq.yd. concrete or asphaltic concrete, 5,670 sq.yd. 4½ in. asphaltic concrete, 2,114 sq.yd. 2 in. asphaltic concrete resurfacing over old brick Front St., to J. C. Maguire, 208 Lewishon Bldg., $41,061.

Neb., Columbus—C. H. Hoge, clk. Platte Co., graveling 37.25 mi. and regraveling 7.5 mi. roads, to Carstensen Sand Co., Columbus, $15,304. Noted Apr. 7.

Nevada — Directors Dpt. Hys., Carson City, constructing road between Las Vegas and Boulder City, Clark Co., to Dodge Bros., Inc., Fallon, $22,877; and road between West Foot and East Foot Conner's Pass, White Pine Co., to Wheelwright Constr. Co., Ely, $16,503. Noted June 10.

N. J., Emerson—Bd. Boro Council, Boro Hall, grading, paving Lincoln Blvd., to W. J. Burns, Prospect St., Oradell. Est. $25,000.

N. J., Freehold — Seeds & Derham, contractors, 25 Maplewood St., Phila., Pa., 2,500 tons structural steel for bridge over Shrewsbury River, to American Bridge Co., Frick Bldg., Pittsburgh, Pa., for Bd. Freeholders Monmouth Co. Noted June 2, under "Contracts Awarded."

New Mexico—State Hy. Dpt., Santa Fe, grading, bridging, crushed base surfacing 3.731 mi. Sante Fe Co., to E. J. Maloney, Gallup, $30,278—sandstone rock asphalt paving 5.2 mi. Valencia Co., to Harden & Farmer, Oklahoma City, Okla., $18,590. Grand total $79,074. Noted June 2.

N. Y., Long Island City—G. U. Harvey, pres. Queens Subway Bldg., sheet asphalt paving 124th St., to M. Cafazzo, 1043 36th St., Brooklyn, $8,921 — grading 33rd Ave., to P. Romando & Co., $7,716—asphalt paving Parsons Blvd., to W. P. MacDonald, 7 Lawrence St., Flushing, $70,569—14th St., to Highway Impvt. & Repair Co., Furmans Island, Brooklyn, $39,267. Grand total $127,473. Noted May 19.

N. Y., Long Island City—G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., to M. S. Constr. Co., grading 57th Ave. $3,749; Pembroke Ave. $3,277 — to F. Mascalli & Son, Baisley Blvd. $3,251; 54th Ave. $4,278 — to Brugel Constr. Co., 77-06 Cypress Ave., Ridgewood, 23rd St. $16,799—to Highway Impvt. & Repair Co., Furmans Island, Brooklyn, sheet asphalt paving 125th St. $10,289; Beach 9th St., $34,538; 87th Ave. $13,524; 62nd St. $11,406; Gilmore St. $7,859; 67th St. $34,752—to P. Romande, 67th St. $18,539—to W. Jackson, excavating, Newtown, $1,917—to Welsh Bros., 27 Purvis St., bituminous macadam paving 215th St. $4,807. Grand total $166,985. Noted Apr. 28.

N. Y., Mount Vernon — J. Donohue, city purch. agt., City Hall, paving West Front St., to L. Pekrillo, 1 Madison Ave. Noted May 12.

Ohio—O. W. Merrell, dir. hys., Columbus, to Cleveland Trinidad Paving Co., 700 Western Reserve Bldg., Cleveland, brick paving except brick 2.76 mi. Cleveland-Wooster Rd., Cuyahoga Co., $173,547; bituminous macadam paving 7.294 mi. National Rd., Licking Co., $119,233, 4.071 mi. Cleveland-Wooster Rd., Medina Co., $143,258—to Dodge-Hussey, Inc., and R. S. Beightler, 1174 West 5th Ave., Columbus, brick paving except brick 1.908 mi. Athens-Hockingsport Rd., Athens Co., $72,466; concrete and brick paving except brick 2.488 mi. McArthur-Athens Rd., Vinton Co., $110,419—to Highway Constr. Co., 1530 Builders Exch., Cleveland, brick paving 2.665 mi. Cleveland-Wooster Rd., Cuyahoga Co., $114,190 — to J. H. Blausey, Woodville, bituminous macadam paving 2.067 mi. Toledo-Wauseon Rd., Fulton Co., $24,089—to R. J. Deinst, 297 South High St., Columbus, 2.217 mi. Newark-Coshocton Rd., Licking Co., $56,300—to A. S. Lengenderfer, 851 Spitzer Bldg., Toledo, 2.816 mi. Perrysburg-Holland Rd.,

Streets and Roads (Continued)

Lucas Co., $78,230—to Swartz & Burns, 410 Pearl St., Zanesville, bituminous macadam resurfacing 0.877 mi. National Rd., Muskingum Co., $6,539 — to Brooks Constr. Co., 1123 Berthold St., Fort Wayne, Ind., bituminous macadam paving 4.363 mi. Fremont-Tiffin Rd., Seneca Co., $53,051—to Weis Bros. & Burmann, Ottawa, 0.354 mi. Toledo-Elmore Rd., Ottawa Co., $17,080—to Harris & Tansey, 730 Security Bldg., Toledo, brick paving, except brick 1.081 mi. Toledo-Wauseon Rd., Lucas Co., $64,184—to W. H. Ringwald & Sons Co., Chillicothe, 2.526 mi. Dayton-Chillicothe Rd., Ross Co., $55,138—to Holmes Constr. Co., Wooster, 4.556 mi. Wooster-Dover Rd., Wayne Co., $66,584—to Modern Constr. Co., Fremont, grading, draining, concrete widening 2.192 mi. Fremont-Port Clinton Rd., Sandusky Co., $43,855—to R. R. Heffner, 222 Fulton St., Celina, concrete paving 5.76 mi. Van Wert-Fort Wayne Rd., Van Wert Co., $98,833—to T. E. McShaffrey Co., 171 South Forge St., Akron, brick paving, incl. furnishing, delivering brick 2.091 mi. Akron-Tallmadge Rd., Summit Co., $76,768—to Nelsonville Brick Co., 150 East Broad St., Columbus, furnishing, delivering brick for improving 1.908 mi. Athens-Hockingsport Rd., Athens Co., $23,785—to Cleveland Brick & Clay Co., 7511 Jeffries Ave., Cleveland, 2.76 mi. Cleveland-Wooster Rd., Cuyahoga Co., $74,844—to Collinwood Shale Brick & Supply Co., 16220 Saranac Rd., Cleveland, 2.655 mi. Cleveland-Wooster Rd., Cuyahoga Co., $55,548—to Metropolitan Brick Co., Canton, 1.081 mi. Toledo-Wauseon Rd., Lucas Co., $27,214—to Reebles Paving Brick Co., Portsmouth, 2.526 mi. Dayton-Chillicothe Rd., Ross Co., $29,237 — to Medal Brick & Tile Co., Wooster, 4.556 mi. Wooster-Dover Rd., Wayne Co., $45,361 — to Hocking Valley Brick Co., 150 East Broad St., Columbus, 2.488 mi. McArthur-Athens Rd., Vinton Co., $5,713. Grand total $1,635,466. O. W. Merrell, dir. Hys., Columbus, cancelled bids received June 10, grading, draining, concrete paving 2.842 mi. Ohio River Rd., Adams Co., $84,538; grading, draining, brick paving except furnishing brick 2.206 mi. Steubenville-Cambridge Rd., Jefferson Co., $107,296; furnishing, delivering brick for same, $31,986.

Ohio—O. W. Merrell, dir. hys., Columbus, brick paving, except brick 2.662 mi. Lancaster-Kirkersville Rd., Fairfield Co., to R. Strawser, Inc., 852 North Cassady Ave., Columbus, $50,230—furnishing and delivering brick for same, to Hocking Valley Brick Co., 150 East Broad St., Columbus, $28,734 — grading, draining, widening with brick, incl. brick 7.651 mi. Columbus-Wooster Rd., Knox Co., to Homeberger & Wager Eng. & Constr. Co., 1802 Camp St., Sandusky, $133,268. Grand total $212,232.

O., Cincinnati—Hamilton Co., E. A. Gast, co. surv., grading, draining, 9 in. 1-4½ No. 58, rein.-con. paving 24,000 sq.yd. Carthage Rd., west to each line Sect. 36, to A. P. Birnbaum, 3339 Chevoit St. $55,932. Est. $78,080.

O., Napoleon—L. A. McClure, aud. Henry Co., waterbound macadam resurfacing county roads, to F. R. Creager, Liberty Center, $21 874.

Oklahoma—State Hy. Dpt. Oklahoma City, grading, draining 7.09 mi. Hy. 70, Jefferson Co. and 6 mi. same road, to J. R. Stewart, El Dorado, Kan., $15,808 and $14,616 respectively—5.91 mi. Jefferson Co. and 3.78 mi. Cotton Co., to J. E. Smith & Sons, Noble, $19,882 and $14,687 respectively—4.047 mi. Hy. 34, Woodward Co. and 4.02 mi. same road, to D. Sweeney, 609 West 11th St., Oklahoma City, $10,693 and $8,830 respectively—4.61 mi. Cotton Co., to A. T. Poslewait, Randlett, $10,366. Grand total $94,882.

Ok'ahoma—State Hy. Dpt., Oklahoma City, grading, drainage 3.349 mi. Creek Co., to J. H. Maxwell, 2 North Boston St., Tulsa, $16,804 est. $22,000—7.619 mi. Carter Co., to Blackburn Constr. Co., Ardmore, $39,821 est. $45,000—2.708 mi. Pawnee Co., to J. W. Taylor, Konawa, $21,153 est. $25,000—6.62 mi. Harper Co., to Miller & Venable, Beaver, $21,309 est. $25,000. Grand total $99,087. Noted June 16.

Oregon—State Hy. Comn., Salem, widening and resurfacing 19.3 mi. roads in Linn, Benton and Polk Counties, and bituminous macadam paving 2 mi. and 19 mi. oiling in Lincoln and Tillamook Counties, to J. C. Compton, McMinnville, $66,766 and $25,487 respectively—graveling 11.05 mi. Umpqua Hy., to Portland Sand & Gravel Co., Portland, $18,737—concrete paving 1.72 mi. and crushed rock surfacing 0.32 mi. Dalles-California Hy., to Dunn & Baker, Klamath Falls, $54,525—grading 4.02 mi. Sislaw Hy., to Jacobson-Jensen, Portland, $15,680 — paving 1.63 mi. Oregon Coast Hy., to T. Arez, Portland, $50,905—17.7 mi. Oregon-Washington Hy., to A. Milne Co., Portland, $53,463—Beaver Creek Unit, Rodgers Farm Secondary Hy., Washington Co., to Treharne & McGraw, Vernonia, $11,629—Rodgers Farm Unit, to C. U. Enstrom, Vernonia, $3,125—Fanno Unit, to Bure Bros., Portland, $8,434. Grand total $308,741.

Pennsylvania — State Hy. Dpt., Harrisburg, macadam paving 103,478 sq.yd. Route 472, Sects. 1 and 2, Forksville Boro and Cherry and Forks Twps., Sullivan Co., to A. A. White Co., Lebanon, $283,906—71,849 sq.yd. Route 758, Barnett and Farmington Twps., Forest and Clarion Counties, to Chas. Winters Constr. Co., Butler, $143,703—101,557 sq.yd. Route 352, Jackson, Barree, and Ferguson Twps., Huntington and Centre Counties, to J. Ciccone, Phila., $178,847—132,052 sq.yd. Route 316, Forest Lake and Middletown Twps., Susquehanna Co., to Rudolph & Delano, Tamaqua, $178,220 — bituminous surface course on old pavement 9,993 sq.yd. Route 58, city of Lock Haven, Clinton Co., to Owen Constr. Co., Johnstown, $9,446—rein.-con. paving 8,300 sq.yd. Route 222, in city of Johnstown, Cambria Co., to Windber Constr. Co., Windber, $26,566. Grand total $820,688. Noted May 19.

Pa., Sewickley—R. G. Woodside, controller Allegheny Co., Court House, grading, curbing, paving Broad St. extension, north approach to Sewickley Bridge, to Donatelli & Donatelli, 7207 Apple St., Pittsburgh, $58,227. Noted June 2.

R. I., Providence—Bituminous macadam paving Luke, Windmill, Aldine and Edgewood Sts., to W. A. Gammino, Inc., 250 Hartford Ave., $7,893—Dutton St., to Gallo Bros., Inc., $429—Bailey Court and De Pinedo St., to I. Capaldi, 270 Mt. Pleasant St., $1,800 — Canton St., Fallon Ave., Pleasant Valley and Justice St., to F. W. Christy, 303 Chapman St., $9,565. Grand total $19,687.

Tennessee—R. H. Baker, hy. comr., Nashville, grading, drainage structures 8.7 mi. hy. between Knoxville and Blount Co. line, to Chandler Bros., Virgilina, Va., $134,723—2.2 mi. hy. Gibson Co., to Fite Constr. Co., Dickson, $45,709—0.6 mi. Sevier Co., to E. A. Wood & Co., Cotton States Bldg., Nashville, $24,861—paving 5.4 mi. Wilson Co. and 8.7 mi. Washington and Sullivan Counties, to H. E. Wolfe Constr. Co., College Grove, $89,048 and $146,601 respectively—0.2 mi. Hy. 1, Nashville, to Eller & Olson, Cotton States Bldg., Nashville, $5,923—surface treating 14.1 mi. Grundy Co., to Brown Constr. Co., 2117 Laura St., Chattanooga, $12,421—6.6 mi. Sumner and Macon Counties, and 6.6 mi. Claiborne Co., to Inter-State Constr. Co., Ind. Bldg., Nashville, $7,059 and $12,582 respectively—9.3 mi. Roane and Morgan Counties, to Murray Constr. Co., 508 Union Ave., Knoxville, $19,577. Grand total $508,504. Noted June 16.

Utah—State Hy. Comn., Salt Lake City, oil processing 33 mi. state highway system in Grand, Emery, Carbon, Sevier, Piute, Garfield Counties, to Granite Constr. Co., Watsonville, Calif., $89,029. Est. $98,098.

Utah—State Road Comn., Salt Lake City, oil dust palliative treatment 28.7 mi. Washington, Iron and Beaver Counties, to Cedar Service Co., Cedar City, $5,326 est. $5,148; 153 ft. span steel, concrete bridge over Denver & Rio Grande R.R., Utah Co., to Young & Ogden, Richfield, $16,522 est. $18,594. Noted June 9.

Vermont—State Hy. Dpt., Montpelier, concrete paving 1/3 mi. hy. and underpass, St. Albans, to Winslow & Cummings, Nashua, N. H., $9,852—concrete paving 0.2 mi. South Shaftsbury, to Donald D. Snyder, Inc., Gardner, $6,978—concrete paving 0.5 mi. Johnson Village, to E. C. Hayden, Barre, $11,963. Grand total $28,793.

Vermont—State Hy. Comn., Montpelier, bituminous macadam paving 3 mi. hy. and concrete bridge between Woodford and Searsburgh, to Lane Constr. Corp., 35 Colony St., Meriden, Conn., $65,194.

Washington—S. J. Humes, dir. State Hys., Olympia, grading, concrete paving 5.301 mi. Columbia Co. and crushed stone surfacing 12 mi. Lincoln Co., to Goetz & Brennan, 914 Seabcard Bldg., Seattle, $145,859 and $8,306 respectviely — bituminous surfacing roads in Lewis, Clark, Skamania, Cowlitz and Wahkiakum Counties, to Hargrave Constr. Co., 418 West 20th St., Spokane, $56,126—grading, crushed stone surfacing 1.609 mi. Chelan Co., to J. A. Terteling & Sons, 511 Sound Ave., Spokane, $25,288—bridges in Okanogan Co., to Strong & McDonald, Inc., 1011 East F St., Tacoma, $52,560. Grand total $288,139. Noted June 2.

Wash., Bellingham—Whatcom Co. paving 1.1 mi. Permanent Hy. 16, and 2.5 mi. Lateral Hy. 22, to G. B. Nolte, Bellingham, $24,592 and $30,773 respectively. Noted June 9.

Wash., Seattle—King Co., grading, graveling 2 mi. Kummer Cut-off North Sect., to J. Otteson Constr. Co., 2804 Hanford St., $36,783. Est. $40,000. Noted May 19.

Wash., Spokane — Spokane Co., grading, crushed rock paving 4.84 mi. Forker-Peone Hy., to J. D. Sullivan & Co., Spokane, $25,410. Est. $28,000.

Wash., Walla Walla—Walla Walla Co., constructing 2.06 mi. Smith Springs-Loop Hy., to Columbia Power & Investment Co., Stevenson, $28,773. Est. $35,000.

Wisconsin—State Hy. Comn., Madison, concrete paving 7.85 mi. Black River Falls-Augusta Rd., Jackson Co., to F. F. Mengel, Co., Wisconsin Rapids, $207,427—0.38 mi. Vernon Co., to J. M. Walsh, Madison, $5,468—grading 8.3 mi. Vernon Co., to W. Lathers, Jr., Madison, $45,552—crushed rock surfacing 8.3 mi. Vernon Co., to E. A. Sturmer, Bloomington, $16,610—structures in LaCrosse Co., to Chernus Constr. Co., 210 Plymouth Bldg., Minneapolis, Minn., $7,732. Grand total $282,789.

Wisconsin—State Hy. and Hy. Com., Sheboygan Co., Court House, Sheboygan, grading, concrete paving 154,968 sq.yd. State Trunk Hy. 144, S.A.P. 2100, Sheboygan Co., to Streu Constr. Co., Two Rivers, $143,172. Noted June 16.

Wisconsin — State and Sheboygan Co. Hy. Comns., Madison, grading, concrete surfacing 107,949 sq.yd. Plymouth-West County Line Rd., S.A.P. 2094, S.T. Hy. 67, to P. C. Kroeck, Inc., Milwaukee, $142,232; constructing Bain and Truesdell Grade Separation Approaches, S.P. 2017 and 2845, to Mahr & Didier, 611 56th St., Kenosha, $19,845. Noted June 2.

Wis., Lancaster—Grant Co., H. Mink, comr. to Cedarburg Constr. Co., Cedarburg, mine tailings surfacing Caygille and Grunow Rds., County Trunk J and G, $1,351; County Trunk E, $1,210; County Trunk I and Union Mills-Highland Rd., $3,960; Laufenberg, Stehr and Berg Rds., $3,227; Harris and Davis, John Burton, Thomas Raine and Ed Miller Rds., $1,256—to Miller & Sellnow, Albany, crushed stone surfacing County Trunks A and D, $8,925; Town Waterloo Rd., $2,720; County Trunks U and N, $5,064—to Becker Bros., Stitzer Creek, graveling Little Grant town roads, $1,845; Mount Hope town roads, $1,218. Grand total $30,776.

Wis., Madison—Dane Hy. Comn., J. R. Caldwell, comr., to Rein & Dahl, Stoughton, graveling 1.2 mi. Christiana Co. $1,176; resurfacing 2,700 cu.yd. roads in Pleasant Springs $1,516—to Eucker & Wegner, Prairie Du Sac, graveling 5.5 mi. County Trunk K, $1,350; 8.5 mi. County Trunk T $2,295—to Watson & Jenkins, Rewey, 13.75 mi. County Gang Jobs 221, 224, 225, 684-05 and 685-05 $8,454—to Evenson & Dodge Cambridge, 2,015 cu.yd. roads $1,552—to E. F. Gallagher, Oregon, surfacing 1,165 cu.yd. in Dunn, $1,158; 3.3 mi. in Fitchburg, $1,862; 2.5 mi. in Montrose, $2,107. Grand total $21,469.

Wis., Milwaukee—Dpt. P. Wks., to Gumz & Switalski, 2065 South 18th St., improving North 65th St. $4,484; South 44th St. $3,835; West Congress St. $4,302; West Fiebrantz Ave. $2,660—to Badger Constr. Co., 125 East Wisconsin Ave., North 4th St. $2,702—to W. F. Hunt, 757 North Bway., North Plankington Ave., $9,359. Grand total $27,342.

Wyo., Evanston—City Council, curbing, guttering, oil processing 2,900 ft. 9th, 10th, 11th, Front and Main Sts. to G. Carruth & Sons, Evanston, $21,200. Est. $25,350.

Alta., Edmonton—City Council, concrete paving sections several streets, to Crown Paving Co., 11351 82nd St., $61,225.

Ont., Belleville—Hastings Co., S. Fox, supt., County Bldg., mixed macadam paving 6 mi. hy., to Rayner Constr. Co. Ltd., 159 Bay St., Toronto, $74,337.

Ont., Goderich—Huron Co. Council, ditching, grading $23,250, graveling $34,000, tarring $19,000, new machinery $4,500, dragging $11,000, repair, gravel, pits, etc., Work will be done under supervision A. Patterson, county engr., Goderich.

Ont., Toronto—City, brick block paving Roycroft Dr., to Grant Contg. Co., 47 Wellington St. E.—concrete paving lane near Manning Ave., to A. Damico, 1441 Dufferin St.—grading, asphalt paving Douglas Dr., to Godson Contg. Co. Ltd., 203 Richmond St. W.—asphalt paving on unnamed street west of Avenue Rd., to McNamara Constr. Co. Ltd., 53 Yonge St.—bitulithic paving St. Hilda's Ave., to Warren Bituminous Paving Co., 74 University Ave. Est. $30,000.

EXCAVATION, DRAINAGE, IRRIGATION, LEVEES, RIVER AND HARBOR

PROPOSED WORK

Tex., Beaumont—Jefferson Co., retained C. P. Haselet, Pres. Scherzer Rolling Lift Bridge Co., 53 West Jackson Blvd., Chicago, Ill., as engineer to design intracoastal canal bridge over canal, south of West Pt. Arthur.

BIDS ASKED

Ill., East St. Louis—Aug. 4, by Bd. Trustees, 213 Metropolitan Bldg., approximately 7,000 ft. revetment work at southern end Front Levee, on Mississippi River, below here. E. F. Harper, c/o owner, engr.

CONTRACTS AWARDED

Calif., Los Angeles—Flood Control Dist., 202 North Bway., rock jetty extension, Alamitos Bay outlet of San Gabriel River, incl. 225 lin.ft. permanent railway trestle (district to furnish all materials), 4,600 tons Class "A" rock in jetty (furnishing, placing) district to pay freight; 4,400 tons Class "B" rock jetty (furnishing and placing), dist. to pay freight, to A. V. Montin, 1057 West 80th St., $11,050.

La., Rayville—Bd. Comrs. Tensas Basin Levee Dist., improving 30,400 ft. Buckhorn Bend Levee, incl. 140,000 cu.yd. excav., to S. Abowitz, Arkansas City, Ark. at 9.6c. per cu.yd. Noted May 19.

Excavation, Drainage, etc. (Continued)

Miss., Holly Springs—Bd. Supervs. Marshall Co., constructing levee on fish preserve known as Duck Pond on Coldwater Rd., north of here, to S. S. Owen, Mount Pleasant, at 15.75c. per cu.yd. Noted May 26.

New Jersey—Bd. Comrs. Commerce & Navigation, State House, Trenton, redredging 212-606 cu.yd. channel in Gul Island Thoroughfare, Reeds and Grassy Bays, Black Point, Atlantic Co., to Hill Dredging Co., Ventnor, at 12.49c. per cu.yd. Noted June 16.

Bond Elections

Coming Bond Elections

Sewage Disposal Plant — Bemidji, Minn. $100,000.
Sewerage System Impvts. — Chillicothe, Mo., July 5, C. A. Haskins & Co., Kansas City, Mo., Engrs. $160,000.
Sewerags System—Maple, Wis., July 1, $37,000.
Irrigation—Cameron County Water Control & Impvt. Dist., No. 19, Brownsville, Tex., July 5, $950,000.
School—St. Joseph, Mo., July 12, $160,000.

Bonds Voted

Water System—Amherst, Va., Madison Heights, San. Dist., $62,500.
Waterworks—Everett, Wash., Alderwood Water Dist., $75,000.
Waterworks, Sewer and Disposal Plant—Hartland, Wis., W. W. Parker, Clk., $45,000.

Bonds Defeated

Court House Completion—Mt. Clemens, Mich., Macomb County, $200,000.

FEDERAL GOVERNMENT

PROPOSED WORK

California — WEIR, etc. — U. S. Eng., Sacramento, constructing Colusa Weir, incl. 120,000 cu. yd. excav., 4,450 cu. yd. concrete, 549,000 lb. reinforcing steel, 64,800 lb. structural steel, 4,000 lb. bronze plates, 5,200 lin. ft. concrete superstructure, 1,266 lin. ft. concrete superstructure, 2,062 cu. yd. ice guards, 1,197 lin. ft. reinforcing steel, etc., Sacramento River, 1.5 mi. north of Colusa.

Calif., Alameda — SEAWALL, etc. — Con. Q. M., received no bids June 14, seawall and hydraulic fill, Benton Field. Noted May 26.

Calif., Sacramento—DREDGING—U. S. Eng., 1,373,000 cu. yd. from Stockton 26 ft. channel in San Joaquin River.

Ill., Fort Sheridan—LAUNDRY—Con. Q. M., plans laundry $100,000.

La., New Orleans—GEAR—U. S. Eng., 1st Dist., power operating gear to be installed on watertight bulkhead doors on dredge Benyard.

La., North Bend—FENDER—U. S. Eng., 540 lin. ft. timber fender for Bayou R. R. Bridge over Louisiana—Texas Intracoastal Waterway, near here.

Mass., Waltham—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C. soon takes bids 1 story, mezzanine, basement, 100 x 122 ft. limestone, granite, Main and Grant Sts. $220,000. M. A. Reidy, 44 School St., Boston, engr. Wadsworth, Hubbard & Smith, 11 Beacon St., archts. Noted Oct. 22.

Mich., Keweenaw—BREAKWATER—Yards & Docks, Navy Dpt., Wash., D. C., rebuilding concrete stone filled timber superstructure on east and west shore wings on breakwater north entrance to Keweenaw Waterway.

N. J., Englewood — POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., bids in August, general contract 2 story, basement, brick, steel U. S. Post Office, Engle St. $182,000. T. J. George & G. V. Harvey, 186 East Palisade Ave., archts. Clinton & Russell, 17 John St., New York, assoc. archts. Noted June 16.

S. D., Pierre—SANATORIUM—Dpt. Interior, Office Indian Affairs, Wash., D. C., completing plans 3 story, basement, 46 x 209 ft., brick, hollow tile sanatorium, incl. nurses home, 2 physicians homes, garage. $375,000.

Tenn., Memphis—HOPPER SCALES, etc.—U. S. Eng. aggregate hopper scales and moisture determinating scales.

Utah—TUNNEL LINING—National Park Serv., Wash., D. C., preliminary plans concrete lining highway tunnel on Zion-Mount Carmel Natl. Park Hy. $142,000. P. P. Patram, supt.

BIDS ASKED

California—ROAD—July 5, by C. H. Sweetser, dist. engr. Pub. Rds., 461 Market St., San Francisco, grading 2.881 mi. Sect. D-3, Route 1, Generals Hy., Sequoia Natl. Park, Tulare Co.

Connecticut—DREDGING—U. S. Eng., Providence, R. I., bids about July 15, dredging Pawtucket River. $50,000.

Ind., French Lick—POST OFFICE—July 13, by Treas. Dpt. at office Sup. Archt., Wash., D. C., constructing U. S. Post Office. Noted Mar. 3.

Ia., Dubuque—POST OFFICE—July 21, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted Mar. 3.

La., New Orleans—EARTHWORK—July 6, by U. S. Eng., 7,180,000 cu.yd. earthwork in 2nd New Orleans Dist.

Me., Togus—BOILER HOUSE, etc.—July 19, by Vet. Bu., Arlington Bldg., Wash., D. C., general contract 1 story, basement, brick, steel, concrete boiler house and utility building in connection with present Natl. Home for Disabled Volunteer Soldiers, also constructing boiler house, incinerator, etc.

Mass., Lynn—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about July 10, U. S. Post Office, Willow, Oxford and Buffam Sts. $700,000. E. H. Hoyt and Associates and Ripley & LeBoutillier, 45 Broomfield St., Boston, archts. F. E. Leland, 238 Main St., Cambridge, engr. Noted Sept. 10.

Miss., Jackson—POST OFFICE—Aug. 4, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Hull & Mulvaney, Jackson, archts. Noted June 16.

Missouri—LEVEE—July 15, by U. S. Eng., P. O. Box 97, Memphis, Tenn., constructing 166,700 cu.yd. earthwork on Bird's Point-New Madrid Floodway Levee, 10 mi. south of East Prairie.

Nev., Reno—POST OFFICE—July 28, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted Oct. 1, 1931.

N.Y., Freeport—POST OFFICE—July 19, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted Sept. 17.

N. Y., Rochester—ELEVATOR PLANT—July 8, by Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator plant at U. S. Post Office.

N. Y., Seneca Falls—POST OFFICE—July 13, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. Noted Mar. 24.

N. C., Durham—POST OFFICE—July 5, by Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office. $355,000. Atwood & Weeks, Durham, archts. Noted Apr. 28.

O., Barberton—POST OFFICE—July 12, by Treas. Dpt., at office Sup. Archt., Wash., D. C., U. S. Post Office. $175,000.

O., Marietta—BULKHEADS—July 7, by U. S. Eng., Huntington, W. Va., wicket bulkheads for Marietta Suboffice.

Ore., Roseburg—BRIDGE—July 18, by Vet. Bu., Arlington Bldg., Wash., D. C., 200 ft. steel span bridge with two 50 ft. approach spans at National Soldiers Home.

Pa., New Castle—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., bids about Aug. 24, 2 story, basement, brick, stone, granite, Washington, Jefferson, Market and Diamond Sts. $326,000. W. G. Eckles Co., 719 Law Savings & Trust Bldg., archt. Noted Mar. 17.

W. Va., Huntington—PUMP—July 5, by U. S. Eng., steam driven boiler feed pump.

Wyo., Sheridan — ELEVATOR — July 5, by Vet. Bu., Arlington Bldg., Wash., D. C., furnishing, installing 1 electric elevator in U. S. Veterans' Hospital.

C. Z., Coco Solo—TANKS, etc.—Spec. 6620—July 6, by Yards & Docks, Navy Dpt., Wash., D. C., steel tanks, concrete ethylizing plant enclosure, motor operated pumps and fan.

CONTRACTS AWARDED

Arkansas, Tennessee and Texas — AIRWAY BEACONS — Div. Purchase, Dpt. Commerce, Wash., D. C., electric airway beacons on Little Rock Nashville Sect. Dallas-Louisville Airway, to W. F. Moody, A.O.U.W. Bldg., Little Rock, Ark., $27,826; lighting facilities on Dallas-Little Rock Sect. Dallas-Louisville Airway, to N. E. Busby & Co., 4004 Main St., Dallas, Tex., $26,475. Noted May 5 and 26.

Conn., New London—WHARF—U. S. Coast Guard, Wash., D. C., pile and timber work for wharf, approach and 2 finger piers, to Rendle Corp., 230 Meridian St., East Boston, Mass., $48,511. Noted June 9.

D. C., Wash.—ELEVATOR—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevator plant in U. S. Post Office, to A. B. See Elevator Co., 52 Vesey St., New York, $337,753. Noted Apr. 21.

Fla., Jacksonville—JETTIES—U. S. Eng., repairing and extending North and South jetties at entrance St. John's River, to Parkhill Dredging Co., 608 Florida Theatre Bldg., $261,100. Noted May 5.

Ga., Brunswick—REMODELING, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office, to Adamson-Bolston & White, Inc., 1100 1st Ave., N., Birmingham, Ala., $22,380. Noted May 26.

Idaho, Lewiston — REMODELING, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office, to W. D. Lovell, 1415 Southeast 8th St., Minneapolis, Minn., $22,560. Noted May 26.

Illinois, Missouri and Arkansas—WALL—U.S. Eng., office, P. O. Box 97, Memphis, Tenn., steel sheet pile cut-off wall with concrete cap at Cairo, Ill., to J. Shedden & Co., 208 West Washington St., Chicago, $132,682—concrete wall at Helena, Ark., to C. G. Kershaw Constr. Co., Martin Bldg., Birmingham, Ala., $154,024. Noted May 12.

Ind., Greencastle — HEATING, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., heating and plumbing for U. S. Post Office, to H. F. Miller, Crawfordsville; electrical work, to Mason Service Co., Greencastle. Noted June 16, under "Contracts Awarded."

Ind., Salem—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., 1 story, basement, brick, steel, to J. C. Miller, Campbellsville, Ky., $41,920. Noted May 19.

Ind., Winchester—HEATING—Treas. Dpt. at office Sup. Archt., Wash., D. C., heating, to C. Schiemann, 1529 Roscoe St., Chicago, Ill.; plumbing, to C. Ewing, 4812 North Kilpatrick Ave., Chicago, Ill.; electrical work, to Morse Electric Co., 6960 Glenwood Ave., Chicago, Ill. Noted May 5.

Ia., Fort Des Moines—BARRACKS BUILDING—Con. Q. M., repairing Barracks Building 25, 3 story, basement, to R. Anderson & Son, 1910 East 33rd St., Des Moines, $9,958.

Massachusetts—SEAWALL—U. S. Eng., Custom House, Boston, repairing seawall at Gallops Island, to W. R. Farrell, 57 Long Wharf, Boston, $6,890. Noted June 2.

Mass., Quincy—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., extending, remodeling U. S. Post Office, to Supreme Constr. Co., 122 East 42nd St., New York, $123,250. Noted May 19.

Mass., Salem—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., 2 story, basement, 105 x 140 ft., brick, steel, to L. B. Cadario, 260 Tremont St., Boston. $185,000. Noted May 19.

Mass., Williamstown—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., brick, stone, to United Constr. & Eng. Corp., 60 Knowles St., Pawtucket, R. I. Est. $100,000. Noted May 19.

Minn., St. Paul—DREDGE HULL—U. S. Eng., 1 wooden dredge hull delivered on Mississippi River, to Peppard & Fulton, 1004 Roanoke Bldg., Minneapolis, $15,773. Noted Mar. 24.

Missouri—LEVEE—U. S. Eng., P. O. Box 97, levee protection work on Ramsey Creek Drainage Canal, Little River Drainage Dist., to Forcum-James Co., Dyersburg, Tenn., $6,150. Noted May 19.

Mont., Billings—EXTENDING, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., extending, remodeling U. S. Post Office, to Rosen & Fischell, 11 South LaSalle St., Chicago, Ill., $169,000. Est. $218,000. Noted Apr. 21.

N. J., Fort Monmouth — GARAGES — Con. Q. M., 15 double sets brick garages, to Goodrich Constr. Co., 24-74 27th St., Astoria. Est. $40,000. Noted May 12.

N. J., Newark—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to N. P. Severin Co., 222 West Adams St., Chicago, Ill., $2,868,000. Noted Apr. 28.

N. J. Paterson—ELEVATORS—Treas. Dpt. at office Sup. Archt., Wash., D. C., elevators in U. S. Post office, to Amer. Elevator Co., 500 Main St., Louisville, Ky., $15,388. Noted May 5.

N. M., Roswell—REMODELING, etc.—Treas. Dpt. at office Sup. Archt., Wash., D. C., remodeling, enlarging U. S. Post Office, to Tioga Contg. Co., 921 West Tioga St., Phila., Pa., $22,410. Noted May 26.

N. Y., Niagara Falls—POST OFFICE—Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to James Devault, Canton, O., $107,000. Noted May 26.

N. Y., Rouses Point—INSPECTION SHED—Treas. Dpt. at office Sup. Archt., Wash., D. C., inspection station, to United Eng. Corp., 60 Knowles St., Pawtuck, R. I., $63,900. Noted May 19.

Pa., Morristown — POST OFFICE — Treas. Dpt. at office Sup. Archt., Wash., D. C., U. S. Post Office, to R. S. Herzog, 10 South 18th St., Phila., Pa., $178,380.

Pa., Phila.—DREDGING—U. S. Eng., 579,000 cu.yd. in Delaware River in Philadelphia Harbor, to Central Dredging Co., 307 North Michigan Ave., Chicago, Ill., $103,878. Noted May 19.

Federal Government (Continued)

S. C., Columbia—DISPOSAL PLANT—Vet. Bu., Arlington Bldg., Wash., D. C., 100,000 gal. disposal plant and 3,300 lin.ft. outfall sewer, to M. L. Gaines, Columbia, $13,593.

Va., Hampton Roads—ELEVATOR—Spec. 6846—Yards & Docks, Navy Dpt., Wash., D. C., 2 electric freight elevators, to Amer. Elevator & Machine Co., 500 East Main St., Louisville, Ky., $4,006. Noted June 16.

Va., Quantico—ROADS—Con. Q. M. improving roads, walls, drains sewers, culverts at U. S. Marine Barracks, to R. G. Lassiter & Co., Raleigh, N. C., $71,720. Noted May 26.

FEDERAL POWER COMMISSION

Applications for License and Permits
Licenses

1206—West Coast Power Co., 210 Fitzpatrick Bldg., Portland, Ore., wants license constructed transmission line in Multnomah and Hood River Counties, Ore., affecting lands within Mount Hood Natl. Forest.

1207—H. G. Cloes, Cordova, Alaska, wants license constructed power project on Sahlam Creek on northwest short Sheep Bay, Prince William Sound, 3rd Judicial Dist., Alaska, affecting lands within Chugach Natl. Forest.

1208—Idaho Power Co., Boise, Idaho, wants license transmission line affecting public lands, Gem Co., affecting public lands.

1209—Southern California Edison Co., Inc., 601 West 5th St., Los Angeles, Calif., wants license constructed transmission line in Los Angeles Co. affecting lands in Los Angeles Natl. Forest.

RAILWAYS

BIDS ASKED

Missouri—See "Bridges, under St. Louis."

SUBWAYS AND TUNNELS

PROPOSED WORK

Mass., Boston—State has passed bill authorizing City, Transit Dpt., T. F. Sullivan, chn., 1 Beacon St., to proceed with Huntington Ave. subway extension. $8,500,000. City Council has approved and Mayor has signed order.

GRADE CROSSINGS

PROPOSED WORK

N. Y., Bainbridge—Delaware & Hudson R.R. Co., J. MacMartin, ch. engr., Albany, eliminating Freiot Ave., Johnson St., Scott St., Walnut St. and Tyler St. Grade Crossings, village of Bainbridge; and Beatty Crossing on Guilford Rd., town of Bainbridge. $144,756 exclusive of land and property damages.

N. Y., Elmira Heights and Horsesheads — Erie R.R. Co., G. S. Fanning, ch. engr., Midland Bank Bldg., Cleveland, O., eliminating Suffern and Rockwell Crossings, Chemung Co.

BIDS ASKED

Mo., Independence—July 5, by Jackson Co., L. E. Koehler, hy. engr., grade separation structure on Courtney Rd. Stayton & Veatch, 508 Interstate Bldg., Kansas City, consult. engrs.

PIERS AND WHARVES

PROPOSED WORK

Que., Montreal — Canadian Vickers Ltd., Maisonneuve, rebuilding facilities for dry docks, shipbuilding, wharves, etc., damaged in fire and explosion. $1,000,000. **Maturity indefinite.**

CONTRACTS AWARDED

Mo., St. Louis—See "Industrial Buildings."

AIRPORTS

PROPOSED WORK

Fla., Miami—Pan American Airways, 122 East 42nd St., New York, 2 hangars, repairs, reconditioning shop, etc., at Dinner Key Airport. **Maturity late in fall.**

GRAIN ELEVATORS

PROPOSED WORK

Kan., Morris—Atchison, Topeka & Santa Fe Ry., H. W. Wagner, ch. engr., Topeka, and Morris Feed Yards, c/o A. Hill, 924 Live Stock Exch., Kansas City, Mo., lessee 3 story grain storage, elevator and adjoining small buildings used in feed yards destroyed by fire recently about 4 mi. from here. **Maturity indefinite.**

N. Y., Oswego—Oswego Elevator Co., postponed construction 2,000,000 bu. grain elevator, Grampus Bay. Option on property extended until Apr. 1, 1933. Noted May 5.

CONTRACTS AWARDED

Tex., Fort Worth—Universal Mills, Riverside St., 272,000 bu. additional capacity, concrete, steel elevator addition, to C. M. Davis, Cotton Exchange Bldg. Est. $40,000.

POWER AND LIGHTING

PROPOSED WORK

Kan., Hutchinson — City retained Black & Veatch, engrs., Mutual Bldg., Kansas City, to make preliminary plans and estimate for gas distribution for city.

Minn., Minneapolis—City special electric lighting in Hennepin Ave. between 4th and 9th Sts. and 5th, 6th and 7th Sts. between Nicollet Ave. and 1st Ave. N., incl. 80 posts. $40,384. W. Elsberg, city engr.

New York—New York Central Electric Corp., 80 East St., Rochester, gas distribution system, mixing, and equipment, for Howard and Troupsburg. Hearing before Pub. Serv. Comn.

Tex., San Antonio—City of Ozona or C. Bradford, c/o Gas Co., Grand Falls, preliminary surveys natural gas distributing ssytem, incl. piping gas to city from point 13 mi. outside of city limits.

Tex., Thompson—Gulf Refining Co., Comal St., San Antonio, and Gulf Bldg., Houston, Humble Oil & Refining Co., Smith-Young Tower Bldg., San Antonio and Humble Bldg., Houston, drainage ditch, 20 ft. wide and 66 ft. deep, 70,000 cu.yd. earth excav., to Brown & Root, San Benito and 4300 Calhoun St., Houston.

Que., Valleyfield—Beauharnois Electric Co., c/o Shawinigan Water & Power Co., Power Bldg., Montreal, electric power distribution in city. Franchise granted by Municipality.

BIDS ASKED

Wis., Appleton—July 6, by City, C. J. Beecher, clk., ornamental street lighting system, incl. furnishing, installing 54 two-lamp lighting standards. L. M. Schindler, City Hall, engr.

CONTRACTS AWARDED

New Jersey—State Hy. Comn., Trenton, lighting system on Route 25, Connecting Link, Sect. 1-8, Contr. 67, to Fischback & Moore, 226 East 41st St., New York, $78,200. Noted June 2.

Wash., Blaine—City Council, 56 street lighting standards, one hundred twelve 6,000 lumen lamps, to NePage, McKenny Co., Armour Bldg., Seattle, $4,600; 2,000 lin.ft. underground cable to be placed by city. Noted May 26.

PARKS AND SPORTS

PROPOSED WORK

N. J., Newark—Dreamland Park, 801 Frelinghuysen Ave., rebuilding sports arena and concession booths. $25,000.

N. Y., New Springville (sta. Staten Island)—Dpt. Parks, W. R. Herrick, pres. Park Bd., Arsenal Bldg., Central Park, New York, preliminary plans athletic field, sports, stands, etc. To exceed $500,000.

N. Y., Port Richmond—Dpt. Parks, W. R. Herrick, pres. Park Bd., Arsenal Bldg., Central Park, New York, preliminiary plans swimming pool. To exceed $150,000.

Wis., Suring—Jones Colonial Resort, Anderson Lake, rebuilding sports and recreation buildings, Anderson Lake, destroyed by fire. $25,000.

CONTRACTS AWARDED

Calif., Los Angeles — Southern California Turf Breeders Assn., H. L. Lewis, mgr., 1002-04 Spring Arcade Bldg., 1 mi. race track, 2 mi. steeple-chase, grand stand and bleachers, 28,000 seating capacity, club house to accommodate 5,500 people, stables, parking space, Baldwin Park, to Wm. P. Neil Co., 4814 Loma Vista St. Est. $1,016,000. Noted June 2.

N. J., Somerville—J. W. O'Conner, archt., 162 East 37th St., New York, 20 x 50 ft. swimming pool, 60 x 125 ft. tennis courts, lockers, to Rodgers & Gons, New Brunswick, for D. Duke, Somerville. Noted May 12.

N. Y., West Haverstraw—Commissioner Dpt. Health, Office Bldg., Albany, constructing recreational and treatment swimming pool at New York State Reconstruction Home, to Dykins & Seaton, Haverstraw, $23,932; heating, to Prominent Heating Co., 1446 44th St., Brooklyn, $2,290; sanitary work, to Howe & Bassett Co., 840 University Ave., $8,777; electrical work, to Engert Hellman, Grand Central Terminal, New York, $275. Grand total $35,274.

HEATING AND VENTILATING

PROPOSED WORK

Ind., Harmony—School Comn. plans completed heating plant, plumbing, septic tank, pressure tank, steam boiler. $25,000. C. W. Allen, city engr.

Ind., Montmorenci—School Comrs. soon take bids furnishing, installing new c.i. sectional steam heating boiler, resetting present boiler, new piping. $25,000. F. P. Reidel, Lafayette, engr.

BIDS ASKED

N. Y., New York—July 6, by W. C. Martin archt. and supt. School Buildings, Flatbush Ave. extension and Concord St., Brooklyn, heating, ventilating, plumbing, drainage, electrical work and electric lighting, for P. S. 85, East 187th St. from Marion to Webster Aves., for Bd. Educ., 500 Park Ave.

N. Y., New York—July 13, by Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, heating work, repairing boiler, new automatic combustion control system, at Manhattan State Hospital, Wards Island.

CONTRACTS AWARDED

N. Y., Kings Park—Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, heating work at Kings Park State Hospital, to J. H. Merritt & Co., 207 Water St., New York, sanitary work, to W. C. Crowe, 335 East 82nd St., New York, equipment, to Arkay Co., 335 West 16th St., New York; also constructing Building O addition, to J. Rosenblum, 1465 Nelson Ave., New York, sanitary work, to W. C. Crowe, 335 East 82nd St., New York, electrical work, to Van Electric Constr. Co., 153 East 42nd St., New York. Noted May 5.

N. Y., New York—Bd. Educ., 500 Park Ave., New York, heating for P. S. 95, to D. J. Rice, 41-50 38th St., Long Island City, $74,700; plumbing, to Hygrade Plumbing Co., 324 West 25th St., $25,980; electrical work, to H. H. Schwartz, Inc., $18,645. Grand total $119,325. Noted May 26.

N. Y., St. George—Bd. Educ., 500 Park Ave., New York, heating in Staten Island Vocational School, to Almirall, Inc., 66 West Bway., New York, $92,485; plumbing, to E. V. McGovern, 251 East 66th St., New York, $61,600; electrical work, to J. Hoffman & Co., 3318 Avenue N, Brooklyn, $96,000; lighting fixtures, to Simes Co., 22 West 15th St., New York, $6,717. Grand total $250,802. Noted Feb. 11.

UNCLASSIFIED

PROPOSED WORK

Ark., El Dorado—STORAGE TANKS—Gulf Refinging Co., El Dorado, 80,000 bbl. storage tanks.

O., Mason — RADIO BROADCASTING STATION—Crosley Radio Corp., 1329 Arlington St., Cincinnati, soon takes bids radio broadcasting station. To exceed $200,000.

Tenn., Memphis—RIVER and RAIL TERMINAL—Memphis Bonded Warehouse Co., Inc., E. B. Anderson, pres., 20 Adams Ave., preliminary plans 1 million bu. capacity rein.-con. grain elevator, oil storage tanks, 4 million gal. capacity, 1 story and 3 story, brick buildings, for river and rail terminal, Wolf River. $1,000,000.

Texas—PIPE LINE—Standard Oil Co., 5301 East 9th St., Kansas City, Kan., and Wichita Falls, Tex., extending 10 in. welded bell joint pipe line 150 mi. from El Dorado to McPherson County oil pools. $1,000,000. Private plans.

Texas—PIPE LINE GATHERING SYSTEM —Gulf Coast Oil Co., Rio Grande City, preliminary surveys pipe line gathering system from Los Olmos oil pool in Starr Co. Private plans.

BIDS ASKED

Ill., Joliet—OPERATORS HOUSES—State of Illinois, Div. Waterways, 220 South State St., general contract five operators houses for rolling lift bridges on Illinois River, Contr. B-19, to Schmidt Bros. Constr. Co., 228 East Huron St., Chicago. Est. $38,100.

Unclassified (Continued)

N. Y., New York—CONNECTIONS, etc.—July 8, by Bd. Transportation, J. H. Delany, chn., 250 Hudson St., New York, furnishing, installing D. C. Connections, track bonding 207th Street Yard, track extension and Houston St. connection of Independent City-owned Rapid Transit Railroad System, agreement "ELS."

CONTRACTS AWARDED

Louisiana — PIPE LINE — Texas Oil Co., Houston, Tex., laying pipe line, incl. trench excav., welding from Port Barre to Anchorage, to Apex Constr. Co., Tulsa, Okla., $200,000.

Maryland—BULKHEAD—State Roads Comn., G. C. Uhl, chn., Baltimore, 470 ft. steel sheet piling bulkhead along Patuxent River, Constr. C-35-811, Calvert Co., to G. A. Crandall, Sudley, $6,615. Noted June 9.

N. Y., Bedford Hills—OVENS, etc.—Dpt. Correction, State Office Bldg., Albany, ovens machinery, at Westfield State Farm, to I. J. White Co., 494 Broome St., New York, $15,700; dumbwaiter, to Elevator Supplies Co., 1515 Willow St., Hoboken, N. J.; heating, to J. J. Moroney, Tompkins Ave., Pleasantville; sanitary work, to Bareham & McFarland, 136 North St., Rochester. Noted Apr. 21.

N. Y., Bedford Hills—REFRIGERATION WORK, etc.—Dpt. Mental Hygiene, State Office Bldg., Albany, refrigeration work for medical center, Westfield State Farm, to Carbondale New York Co., 175 Christopher St., New York, $25,356; elevators in storage building, to Otis Elevator Co., 1877 Webster Ave., New York, $4,395; kitchen and dining room dumbwaiter, to Elevator Supplies Co., 1515 Willow St., Hoboken, N. J., $883. Grand total $30,634. Noted May 19.

N. Y., Corona—PLUMBING—Bd. Educ., 500 Park Ave., New York, plumbing P. S. 16 addition, 104th St. between 41st and 42nd Aves., to E. V. McGovern, 251 East 66th St., New York, $10,660. Noted May 19.

N. Y., Pocantico Hills—STABLES, etc.—J. D. Rockefeller, Jr., 26 Bway., superstructure stables and silo, to Mertz Co., 145 Horton Ave., Port Chester. Noted May 19.

N. Y., Poughkeepsie—REFRIGERATION—Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, refrigeration for hospital (farm colony) and for tuberculosis building at State Farm Colony, Hudson River State Hospital, to York Ice Machine Co., 42nd St. and 2nd Ave., New York, $4,276 and $4,900 respectively. Noted May 5.

Pa., Harrisburg — REROOFING — State Dpt. Property & Supplies, reroofing capitol building, to Louis Ruger & Co., 5900 State Rd., Phila. $176,000.

MATERIALS

PROPOSED WORK

PIPE—**San Francisco, Calif.**—City, T. A. Brooks, city purch. agt., purchasing 2,700 ft. 12-in. 14-gage asphalt double dipped, riveted or welded steel pipe (slip joint).

GRAVEL—**Long Island City, N. Y.**—G. U. Harvey, pres. Queens Boro, Queens Subway Bldg., rejected bids May 23, cementitious road gravel. Noted May 19.

BIDS ASKED

OIL ASPHALT, etc.—**Florida**—July 12, at office State Road Dpt. Tallahassee, B. M. Duncan, state hy. engr., 56,323 gals. oil asphalt, summer viscosity, 2,000 cu.yd. cover material, f.o.b. cars, Newberry, Project 817, Rd. 13, Alachua Co., 40,000 gal. oil asphalt, summer viscosity, f.o.b. cars Raleigh, Fla., S.A.L. delivery, 40,000 gal. f.o.b. cars Morriston, A.C.L. delivery, 40,000 gal. f.o.b cars Williston, A.C.L. delivery, Project 868, Rd. 5, Levy Co.

STEAM CINDERS—**Brooklyn, N. Y.**—July 7, by H. Hesterberg, pres. Brooklyn Boro, Boro Hall, 8,000 cu.yd. steam cinders.

MACADAM BINDER—**New York, N. Y.**—July 6, by M. F. Kenney, deputy and acting comr. Purchase, Municipal Bldg., asphaltic macadam binder to Dpt. Water Supply, Gas & Electricity.

ROAD OIL—**Aliquippa, Pa.**—July 5, by J. W. McElheny, secy., furnishing, applying 20,000 gal. road oil or road tar in light, medium and heavy grade.

BITUMINOUS MATERIAL—**Phila., Pa.**—July 12, by Bureau Hys., Dpt. P. Wks., F. Caven, diri., City Hall Annex, bituminous material (dust laying oil), Schedule B.

CLAY PIPE, etc.—**Warren, Pa.**—July 4, by C. J. Reese, chn. Sewer Com., 1,700 ft. 15 in. d.s. vitr. clay pipe; sixty-two 15 x 6 in. wyes; 1,800 ft. 12 in. vitr. shale pipe; sixty 12 x 6 in. wyes.

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CONTRACTS AWARDED

STRUCTURAL STEEL—**Myrtle, Ark.**—See "Bridges."

PIPE—**San Bernardino, Calif.**—W. Starke, city water supt., 2,700 ft. 6 in. and 1,630 ft. 8 in. 14 gage welded sheet steel drive pipe, for Devil Canyon Project, to L. A. Manufacturing Co., 2500 East 23rd St., Los Angeles, at 32c. and 41.5c. per ft. respectively.

ROAD TAR—**Hartford, Conn.**—Bd. Contr. & Supply, 30,000 gal. tar for cold patching and 20,000 gal. for hot patching, to Koppers Products Co., Providence, R. I., $6,502. Noted June 2.

ASPHALT EMULSION—**Chicago, Ill.**—Cook Co., 200,000 gal. asphalt emulsion for repairing and maintaining state aid roads during 1932, to Great Lakes Asphalt & Petroleum Co., 7 South Dearborn St., at 10c. per gal., total $20,000.

AGGREGATES—**Indiana**—State Hy. Comn., Indianapolis, 19,250 tons bituminous coated aggregates for resurfacing to W. J. Nees Co., Mishawaka, to T. O. Edmond, Evansville, to Hayes Constr. Co., 1503 West 30th St., Indianapolis, and to Bridges Asphalt Paving Co., 1411 Central Industrial Bldg., St. Louis, Mo. $60,000.

CULVERT PIPE—**Sidney, Ia.**—Fremont Co., 2,000 ft. 18- to 84-in. corrugated culvert pipe, to Iowa Culvert & Pipe Co., Des Moines, $5,430. Noted May 23.

STRUCTURAL STEEL — **Emporia, Kan.** — Lyon Co., W. F. Hanna, clk., 150 tons structural steel for bridges, to Kansas City Structural Steel Co., 21st St. and Metropolitan Ave., Kansas City, Mo.

GRANITE BLOCK PAVING STONES—**Portland, Me.**—City, W. O. Thompson, purch. agt., City Hall, 200 M recut granite block paving stones, to Monitor Constr. Co., Exchange St., $20,070.

CAST IRON PIPE—**Waltham, Mass.**—Municipal Water Dist., 150 tons c.i. water pipe, to R. D. Wood & Co., 400 Chestnut St., Phila., Pa.

CAST IRON PIPE—**West Springfield, Mass.**,—Municipality, 100 tons 6 in. c.i. water pipe, to Donaldson Iron Wks., Emaus, Pa.

CAST IRON PIPE—**Concord, N. H.**—Municipality, 1000 tons 12 and 16 in. c.i. water pipe, to Warren Fdry. & Pipe Co., Phillipsburg, N. J.

STEEL—**Hannibal, Mo.**—Marion Co., furnishing, erecting 290 tons structural steel for highway bridge, to Vincennes Bridge Co., Vincennes, Ind.

STEEL—**St. Louis, Mo.**—Wabash Railway Co., E. L. Cruger, ch. engr., Exchange Bldg., 500 tons structural steel for bridge work along system, to American Bridge Co., 506 Olive St., to McClintic Marshall Corp., 1010 Pine St., to Mississippi Valley Structural Steel Co., 3117 Big Bend Blvd., Maplewood, and to Stupp Bros. Bridge & Iron Co., 2800 Weber Rd.

AMMONIUM SULPHATE—**St. Louis, Mo.**—Water Dpt., 30 tons ammonium sulphate, to G. S. Robins Co., 316 South Commercial St., $26.50 per ton, delivered to East Grand Ave.; 425 tons gravel, to Contractors Material Co., St. Louis, at $1.49 per ton, delivered to above address; valves, to N. O. Nelson Mfg. Co., 4330 Duncan Ave., $531; electrical supplies, to Glasco Electric Co., 721 North 11th St., $1,145.

LIGNIN BINDER—**Trenton, N. J.**—State Hy. Comn., Trenton, 604,455 gal. lignin binder, to M. R. Young, Fisher Pl., at 10.8c. per gal., total $65,281.

STRUCTURAL STEEL, etc.—**Raleigh, N. C.**—Div. Purchase & Contr., Morgan St., 14,537 lb. structural steel, to Carolina Steel & Iron Co., Greensboro, $367; 66,018 lb., to Dietrich Bros., 220 East Pleasant St., Baltimore, Md., $1,498; 30,715 lb., to Southern Eng. Co., Charlotte, $738; 2 carloads nails, to Harris Hardware Co., Washington, at $913 and $919 respectively; 1 car load creosoted sign posts, to North State Creosoting Co., Wilkinson Blvd., Wilmington, $430; axle steel, to Dillon Supply Co., 216 South West St., $175. Grand total $5,040.

VITRIFIED CLAY PIPE—**Phila., Pa.**—Bureau of Hys., Dpt. P. Wks., City Hall Annex, excavating trench and laying vitr. clay pipe, Clearfield St., from Richmond to Allen Sts., Schedule A, to J. Devlin, Jr., Hancock and Thompson Sts., $250; asphalt plank for bridge decks, Schedule C, to Kalman Steel Corp., Broad St., Station Bldg., $1,073.

SEWER PIPE—**Beaumont, Tex.**—City Comn., c/o P. Millard, mgr., to Pyramid Concrete Pipe Co., 1407 Crockett St., Beaumont, 1,100 ft. 21 in. sanitary and sewer pipe at 95c. per ft., 1,100 ft. 18 in. 72c., 100 ft. 15 in. 68c., 12,000 ft. 6 in. 12c., 6 x 6 in. wyes 65c., 6 in. plugs 5c.

EQUIPMENT

PROPOSED WORK

PUMP—**St. Cloud, Minn.**—City, G. M. Atkinson, city clk., purchasing 500 g.p.m. pump with 50 hp. motor.

BOILER—**Salem, Ore.**—W. Einzig, state purch. agt., soon takes bids 250 hp. 200 lb. pressure boiler for heating State Prison. $20,000.

DERRICKS, etc.—**Dallas, Tex.**—Plains Producing Co., c/o H. Byrd, Athletic Bldg., replacing plant equipment, incl. derricks and oil production equipment destroyed at No. 1 Monroe well in Ward Co.

ROAD MACHINERY—**Brantford, Ont.**—Brant Co., expending $9,000 for purchase maintenance road machinery this year. R. Lee, Court House, engr.

BIDS ASKED

GATE VALVE—**Chicago, Ill.**—July 5, by Dpt. P. Wks., City Hall, design, fabricate and deliver 48 in. hand operated low pressure gate valve at 14th St. Water Pumping Sta., 1354 Indiana Ave.; eighteen thousand ¾ in. and eight thousand 1 in. bronze gate valves, at Pipe Yard B, 3150 South Sacramento Ave. A. A. Sprague, comr.

GASOLINE ENGINE, etc.—**Cambridge, Mass.**—C. W. Harper, 29 Blakeslee St., in market gasoline engine and pump for private water system. Private plans.

ROAD MACHINERY—**Nashville, Ind.**—July 5, by Bd. Comrs. Brown Co., 1 unit road maintaining machinery, consisting motor power and maintainer dreg. $5,000. B. Schrougham, Nashville, aud.

HYDRANTS, etc.—**Masson, Que.**—H. J. Gorman, village secy.-treas., in market 13 hydrants, necessary valves and lead or hydratite in connection with new water system for village.

CONTRACTS AWARDED

TRANFORMERS—**Los Angeles, Calif.**—City, T. Oughton, purch. agt., City Hall, transformers, Spec. 2768, to Allis-Chalmers Mfg. Co., 458 South Spring St., $61,690.

METER BOX COVERS—**Oakland, Calif.**—J. H. Kimball, secy. East Bay Municipal Utility Dist., 6,000 concrete covers for meter boxes and 5,000 concrete meter boxes, to Art Concrete Wks., 24th and Adeline Sts., $4,320.

TAR KETTLES, etc. — **Iowa** — State Hy. Comn., Ames, 5 tar kettles to R. W. Simpson, 402 Old Colony Bldg., Des Moines, $650; 2 Sargent Scout cranes, to Sargent Machine Co., Fort Dodge, $8,900; mower parts, to Herschel Mfg. Co., Peoria, $1,627; 1 crawler tractor, to Haight Truck & Equipment Co., Des Moines, $3,881; dump bodies, to Barton-Warner Co., Sioux City, $3,300. Grand total $18,358. Noted May 19.

CHLORINATORS—**Breckenridge, Minn.**—City, 2 chlorinators of manual control feed type, to Wallace & Tiernan, 614 Flour Exch., Minneapolis, $1,422. Noted May 12.

GENERATOR, etc.—**Lincoln, Neb.**—City, 4,000 kw. turbo-generator and switchboard also surface condenser installed in A Street Pumping Station, to Allis-Chalmers Co., Waldheim Bldg., Kansas City, Mo., $79,950 and $23,500 respectively.

PUMP—**Wayne, Neb.**—City, Pomona turbine 400 g.p.m. pump, to Interstate Mchy. & Supply Co., 1006 Douglas St., Omaha, $1,524 completely installed.

MANHOLE HEADS—**Brooklyn, N. Y.**—H. Hesterberg, pres. Brooklyn Boro, Boro Hall, manhole heads and covers, to Campbell Fdry. Co., Harrison, N. J. Noted May 19.

ELECTRICAL EQUIPMENT—**Phila., Pa.**—C. C. Davis, dir. Dpt. City Transit, City Hall Annex, furnishing, installing, relocating electrical equipment in substations and in Broad St. Subway, Contr. 220, to W. V. Pangborne & Co. Inc., 1927 West Montgomery Ave., $58,500. Noted June 9, under "Subways and Tunnels."

STEAM HEATING EQUIPMENT — **Austin, Tex.**—July 15, by University of Texas, Bd. Regents, c/o J. W. Calhoun, comptroller, installing complete steam heating equipment in present power plant building, incl. boilers, equipment. C. J. Eckhardt, Austin, supt.

ROAD MACHINERY — **Goderich, Ont.** — See "Streets and Roads."

FOREIGN

England, Liverpool—British Insulated Cables Ltd., plans copper refining plant, 3,000 tons fire refined copper capacity, near here. **Maturity soon.**

Foreign (Continued)

Italy, Vatican City—Papal State plans power plant. Part of program to make Vatican City self sufficient unit.

Mexico, Monterrey — J. Muguerza, et al, Monterrey, soon takes bids 5 story, part basement hospital, foot of Obispado Hill. H. S. Greene, Alamo Natl. Bank Bldg., San Antonio, Tex., archt.

N. Z., Wellington — Sept. 15, by Secretary Pub. Works & Tenders Com., one 1,500 kva., 3 phase transformer, incl. Buchlotz relays and spares.

Turkey—Turkish Government, Angora, plans 3 year program public schools in various cities. To exceed $1,000,000.

U. S. S. R., Moscow—Soviet Govt., c/o Amtorg Trading Corp., 261 5th Ave., New York sketches by H. O. Hamilton, East Orange, N. J., 120,000 seating capacity, steel, rein.-con. stadium.

U. S. S. R. Chernigoa — Soviet Govt. c/o Amtorg Trading Corp., 261 5th Ave., New York, cottonin manufacturing (cotton substitute) plant by technical aid contracts. $8,000,000.

Commercial Buildings

PROPOSED WORK

Conn., Danbury—Wooster School, A. C. Coburn, headmaster, sketches by John Mead Howells, 156 East 46th St., New York, administration building and dormitory.

Conn., Stamford — Congregation Agudas Sholem, 20 Greylock Pl., plans by W. Schneider, 101 Park Ave., New York, and takes bids early in August, general contract synagogue. To exceed $150,000.

Ky., Berea—Berea College, W. J. Hutchins, in charge, plans by A. O. Elzner, 111 East 4th St., Cincinnati, O., administration building. To exceed $150,000. More than $75,000 now available for project. **Maturity when additional funds are obtained.** Noted Jan. 14.

Me., Dixfield—Berst Foster Dixfield Co., F. W. Smith, mgr., West Peru, soon lets contract 1½ story, basement, 27 x 43 ft., brick, office, 1 story, 30 x 42 ft. concrete garage, 2 story, 130 x 150 ft. warehouse. H. F. Hallock, 28 Montcalm St., Oswego, N. Y., archt.

Mass., Allston (sta. Boston)—Massachusetts Memorial Hospital, 82 East Concord St., Boston, plans ready about June 30, 7 and 10 story, brick, stone, granite hospital addition, Commonwealth Ave. and Washington St. $400,000. Kendall, Taylor & Co., 209 Columbus Ave., Boston, archts.

Mass., Boston—City, Fire Dpt., 60 Bristol St., plans by Krokyn, Browne & Rosenstein, 120 Mills St., fire station, Huntington Ave.

Mass., Brockton — Greek Orthodox Church, E. Triantofilides, 57 Spring St., soon takes bids 2 story, basement, 52 x 100 ft., brick, concrete church. $150,000. C. T. Olson, 21 High St., archt. Noted June 2.

Mass., Gardner—B. N. Michelman, 52 Willow St., Springfield, revised plans by J. W. Foster, 72 Narragansett St., Springfield, 75 x 120 ft. business block, Parker St. To exceed $150,000.

Mass., Westfield—Noble Hospital, 105 West Silver St., M. Smylie, plans by M. B. Harding, 10 Main St., Lilley Memorial Children's Unit, 4 story, 50 x 125 ft., brick, steel, West Silver St. $250,000. **Maturity in fall.**

Mich., Detroit—Marianhill Foreign Missions, G. Stack, pastor, plans being completed by H. P. Hess, 1001 Ambassador Bldg., St. Louis, Mo., and soon takes bids 2 story, 154 x 234 ft., concrete, brick, Bedford and Carthage stone trim church, monastery, Fordson St. and Telegraph Rd. $250,000.

N. J., Beach Haven—G. E. Salvage, archt., Witherspoon Bldg., Phila., Pa., bids in August, general contract, 2½ story, basement, with 4 story tower, brick, stone, steel, church, for Methodist Episcopal Church, E. H. Cloud, pastor. $150,000.

N. J., Dumont—V. Reeser, archt., Larch Ave., prepared preliminary plans and takes bids in September, 1 and 2 story, brick, steel, stone church, parish house and parsonage, for Lutheran Church of Our Redeemer, R. W. Heins, pastor, 256 McKinley Ave. $150,000. Noted June 9.

N. J., East Orange—H. A. Walker, archt., 360 Main St., rejected bids general contract altering and constructing 2 story, basement, brick, steel church addition, Ashland Ave., for Swedish Free Lutheran Church, C. Anderson, in charge, 24 Moore Terrace, West Orange. $150,000. Noted May 5.

N. J., East Orange—F. G. Hasselman, archt., 34 Prospect St., East Orange, bids in August, general contract altering and constructing 3 story, basement store, apartment addition, 535 Main St., for Owner, c/o architect. $150,000. Noted May 5.

N. J., Englewood—O. C. Licht, archt., 4 North Dean St., rejected bids general contract 5 story, basement, brick, steel office, store addition, East Palisade Ave. and North Dean St., for R. Livingston, 13 East Palisade Ave. $150,000. Architect will revise plans for smaller project. Noted June 9.

N. J., Hoboken—Knights of Columbus, H. Sutton, in charge, 716 Hudson St., 2 story, basement, brick, steel, stone club addition, Hudson St. $250,000. **Maturity indefinite.**

N. J., Jersey City—Owner, c/o C. I. Goldberg, archt., 898 Bergen Ave., sketches 3 story office, store. $150,000.

N. J., Jersey City—Owner, c/o J. Armstrong, archt., 36 Gautier Ave., sketches 3 story, basement, brick, steel church. $150,000. **Maturity indefinite.**

N. J., Morristown — St. Margarets Roman Catholic Church, J. J. Sheerin, pastor. Early St., plans by Fanning & Shaw, 49 Ward St., Paterson, altering 2 story, basement, brick, steel school into sisters home. $150,000.

N. J., Newark—Bethsaida Baptist Church, 163 Bloomfield Ave., plans by F. A. Reed, 1221 East Grand St., Elizabeth, altering and constructing 2 story, tower, church addition, Bloomfield Ave. $150,000.

N. J., Newark — Owner, c/o F. C. Kern, archt., 5 Bloomfield Ave., sketches 2 story, basement, 150 x 200 ft., brick, steel theatre, Bloomfield Ave. $150,000.

N. J., New Brunswick—A. Merchant, archt., 1 Elm Row, bids in September, general contract 1½ story, 75 x 115 ft., stone, brick, steel club addition, Livingston Ave., for B.P.O.E., 324, 40 Livingston Ave. $150,000. Noted Apr. 21.

N. J., Passaic—M. L. Waeber, archt., Hollywood Ave., Massapequa, N. Y., rejected bids Apr. 20, general contract 3 story, basement, brick, stone, steel convent, Quincy St. near Parker Ave., for St. Joseph's Roman Catholic Church, L. Szore, pastor, 5 Parker Ave. $150,000. Noted Apr. 21.

N. J., Paterson—Owner, c/o J. Holt, archt., 132 Market St., sketches 2 story, basement, brick, steel store, office, $150,000.

N. J., Sussex—Englewood Rod & Gun Club, Englewood, 2 story, basement club house, near Stokes State Forest. $150,000. **Maturity indefinite.**

N. J., Union City—P. L. Schultz, archt., 256 Summit Ave., rejected bids general contract 2 story, basement, 75 x 115 ft., brick, stone, steel store, office, Summit Ave., for Solomon & Slatkin, 170 Oak St., Weehawken. $150,000. F. W. Woolworth Co., 1500 Chestnut St., Phila., Pa., lessee. W. Mahnken, 256 Summer Ave., assoc. archt. Noted Apr. 28.

N. J., Verona—Fanning & Shaw, archts., 49 Ward St., Paterson, soon lets general contract 2 story, basement school addition, Bloomfield Ave., for Church of Our Lady of The Lake, J. L. Kelly, pastor, 587 Bloomfield Ave. $150,000.

N. Y., Brooklyn—Jewish Sanitorium for Incurables, Inc.; East 48th St. and Rutland Rd., plans by T. Goldstone, 191 Joralemon St., 6 story, 71 x 115 ft. hospital, East 48th St. and Rutland Rd. $250,000.

N. Y., Flushing—Richill Realty Corp., c/o Cherry & Matz, 232 Madison Ave., New York, five 2 story, 60 x 210 ft. store and office, Northern Blvd. and 160th St. $150,000.

N. Y., New York—R. T. Lyons, archt., 40 East 49th St., bids after Oct. 1, 19 story store, apartment, 754 Park Ave., for Corporation, c/o J. H. Hill, 420 Lexington Ave. To exceed $700,000.

N. Y., Queens Village—Bd. Educ., 500 Park Ave., New York, plans by W. C. Martin, Flatbush Ave. extension and Concord St., Brooklyn, P. S. 64, 107th Ave. and 82nd St. $600,000.

N. Y., Suffern — Good Samaritan Hospital, F. H. Jenke, chn. Building Fund Comn., Orange Ave., sketches by F. J. Murphy, 2095 Bway., New York, 4 story, basement hospital addition, Lafayette Ave. and Village line. **Maturity after Aug. 1.** Noted Feb. 12.

N. Y., Watertown—Hungerford Building, 102 Washington St., department store. To exceed $150,000. Smith & Percy, 102 Washington St., lessee.

N. C., Guilford—Guilford College plans by A. Bussell, 347 Madison Ave., New York, class and administration buildings first to proceed, also library, laboratories, Friendly Rd. **Maturity in October or November.**

O., Cleveland—Bd. Educ., F. G. Hogan, dir., plans by John H. Graham & Co., Guardian Bldg., 2 story, brick, steel, concrete school addition, 5160 Fowler Ave. $200,000.

O., Conneaut—Bd. Educ., C. Millard, clk., Youngstown, plans by Zenk & Campbell, 144 Wood St., Youngstown, 2 story, brick, steel, concrete addition to Senior High School. Election Nov. 8, $150,000 for same.

O., Toledo — Hope Evangelical Lutheran Church, c/o R. G. Schulz, 333 Indian Rd., sketches by P. Cahill, archt., c/o Owner, church. $150,000. Maturity next winter.

O., Wooster—College Wooster, C. N. Taylor, asst. to pres., union building. Architect not appointed. **Maturity indefinite.**

Pa., Erie—A. Weschler, 1018 State St., store, office, 1018 State St. $150,000. H. M. Reich Co., 1018 State St., lessee.

Pa., Washington—Warner Bros. Pictures, Inc., H. P. Harris, dist. mgr., Clark Bldg., Pittsburgh, rebuilding brick, steel, concrete theatre, balcony, 59 West Main St. $250,000.

R. I., Charlestown—St. Mary's Catholic Church plans by J. F. Hogan, 315 Grosvenor Bldg., Weybosset St., Providence, church. $200,000 up.

R. I., Providence—Brown University, C. A. Barbour, pres., plans E. B. Andrews Memorial infirmary. To exceed $150,000. Funds available from $300,000 gift donated for purpose.

Tex., El Paso—W. T. Grant Co., 1441 Bway, New York, repairing store and storage, recently damaged by fire. $200,000. G. B. Lapowski & Co., Davis Optical Co., and Schuhmann Photo Co., El Paso, lessees.

Utah, Provo—State, Salt Lake City, receiving and hospital building for State Mental Hospital. $250,000. R. K. Brown, c/o State Building Comn., Salt Lake City, engr.

Wis., Green Bay—Catholic Church of Annunciation, W. Kierman pastor, 115 South Jefferson St., plans by Foeller & Schoeber, 310 Pine St., 3 story, basement, brick, rein.-con. church, school, Gray St. $150,000. Noted May 26.

Wis., Manitowoc — Holy Innocents Catholic Congregation, E. A. Radly, pastor, 720 New York Ave., plans by Smith & Brandt, College Ave., Appleton, 2 story, basement, 60 x 120 ft., brick, rein.-con. church, school. $150,000. Noted May 5.

Man., Winnipeg—Christian Science Society, 802 Paris Bldg., plans by E. Prain, 506 Confederation Life Bldg., concrete, brick church, Aikins St. and Inkster Blvd.

P. E. I., Charlottetown—Bd. Hospital Comrs., 71 Kensington Rd., plans by Govan & Ferguson, engrs. and archts., 515 Jarvis St., Toronto, Ont., and J. Harris, local archt., Des Brisay Bldg., 3 story, structural steel, brick, stone faced hospital, Brighton Rd. Canadian Domestic Eng. Co. Ltd., 625 Burnside Ave., Montreal, Que., consult. engrs.

BIDS ASKED

Calif., Alta Loma—Aug. 15, by Upland Sanitorium Corp., 1601 North Wilcox Ave., Los Angeles, H. H. Johnson, pres., (1st unit) sanatorium. $300,000. E. C. and E. W. Taylor, 803 West 4th St., Los Angeles, archts. and engrs. Noted Feb. 25.

Conn., Hartford — Trustees Wadsworth Atheneum, C. A. Goodwin, chn., 624 Main St., bids about July 15, 3 story, basement, stone library, glassed in court, offices and exhibition galleries, etc., Prospect and Atheneum Sts. $600,000. Morris & O'Connor, 101 Park Ave., New York, archts. Elwin E. Seeley & Co., 101 Park Ave., New York, engrs. Noted Feb. 4.

Conn., Waterbury—Grace Baptist Parish, I. W. Reed, pastor, bids about July 15, 1 and 2 story, brick, stone 35 x 88 ft. and 45 x 80 ft. church, Kingsbury and Brown Sts. $150,000. E. J. Richmond, archt., 174 Grand St., completing plans. Noted Mar. 31.

Md., Catonsville (br. Baltimore)—July 8, by Spring Grove State Hospital, 3 story, basement, brick, concrete infirmary. $175,000. H. P. Hopkins, 10 East Mulberry St., Baltimore, archt.

N. J., Bayonne—C. I. Goldberg, archt., 898 Bergen Ave., Jersey City, bids in August, general contract 2 story, basement, brick, steel office, store, for Owner, c/o architect. $150,000. Noted June 9.

N. J., Englewood—See "Contracts Awarded."

N. J., Hackensack—Bd. Educ., 355 State St., bids about July 17, 2 story, basement, brick, steel school, Hobart St. $180,000. A. Dore, 15 Main St., archt. Noted Feb. 25.

N. J., Jersey City—D. J. Scrocco, archt., 440 Central Ave., Orange, bids in August, general contract 13 story, basement, 100 x 150 ft., brick, steel office, store, Summit Ave., for J. Siegel, Inc., c/o architect. Noted Mar. 24.

N. J., Lodi—Bd. Educ., A. Cody, pres., Union St., bids about July 22, Junior High School, 2 story, basement, brick, steel, Westervelt Pl. and 1st St. $340,000. F. Pirrone, 104 Midland Ave., Garfield, archt. Noted June 2.

N. J., Newark—July 11, by A. P. Nucciarone, archt., 206 Central Ave., Orange, general contract 2 story, basement, 60 x 180 ft., brick, limestone, steel temple, store, Hill St., for Three Links Temple, Inc., I.O.O.F. 42, Hill St. $150,000.

N. J., Newark—July 1, by A. P. Nucciarone, archt., 206 Central Ave., Orange, general contract 2 story, basement, brick, steel, temple and stores, Hill St., for Three Links Temple, Inc., I.O.O.F., 42 Hill St. $150,000.

N. J., Wood Ridge—F. C. Doriat, archt., 401 North St., bids about Aug. 1, general contract 1 story, basement, brick, steel church, Valley

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Commercial Buildings (Continued)

Blvd., for 1st Baptist Church, S. B. Seales, pastor. $150,000. Noted May 26.

N. Y., Oneonta—July 28, by Dpt. Health, State Office, Albany, tuberculosis hospital. Noted June 2.

N. Y., Pine Aire Station—Aug. 3, by Commissioner Dpt. Mental Hygiene, State Office Bldg., Albany, stewards residence, Buildings 21 to 24 (inclusive) service tunnels and connections.

N. Y., Rensselaer—Aug. 16, by Commissioner Conservation, State Office Bldg., Albany, restoring Fort Cralo.

N. Y., Thiells—July 27, by Dpt. Mental Hygiene, State Office Bldg., Albany, employees buildings, industrial buildings at Letchworth Village. To exceed $150,000.

Pa., Phila.—July 11, by P. P. Cret, archt., Architects Bldg., new bank building, Chestnut and 9th Sts., for Federal Reserve Bank. $1,000,000. Noted June 9.

Tex., San Antonio—July 6, by Bd. San Antonio State Hospital, South Presa St. and H. T. Phelps, archt., Hicks Bldg., 2 story, part basement, 60 x 110 ft., brick, rein.-con. dormitory, South Presa St. $110,000-$150,000. Noted Feb. 4.

Ont., London—Victoria Hospital, A. E. Silverwood, chn. Bd. Trustees, bids about Sept. 1, (1st unit) 5 story, basement, brick, hospital. $500,000. Watt & Blackwell, Victor Bldg., archts. Noted Mar. 10.

CONTRACTS AWARDED

Ia., Des Moines—Northwestern Bell Telephone Co., H. G. Conger, mgr., 3404 Iola St., for Drake Telephone Exchange, 2 story, basement, 64 x 80 ft., concrete, brick, 4201 Kingman Blvd., to C. Weitz & Sons, Inc., 713 Mulberry St.; heating and plumbing, to Goff Plumbing & Heating Co., 579 7th St. Est. $1,250,000.

Me., Rumford—Rumford Community Hospital, Franklin St., 3 story, basement, 33 x 115 ft., brick, concrete nurses' home and hospital addition, to J. H. Kerr, Prospect St., $70,000. Noted Apr. 21.

Mass., Boston — M. Cummings Co., general contractor, 43 Tremont St., furnishing, erecting structural steel for Health Unit 7, Roxbury, to New England Structural Co., 38 Chauncy St., for City, E. R. Logan, 45 City Hall. Noted June 23, under "Contracts Awarded."

Mass., Boston—City, Dpt. School Buildings, City Hall, 2 story, basement, 80 x 127 ft. school, Bennington and Saratoga Sts., East Boston, to C. A. Carilli, 73 Rockwell St., Mattapan, $150,000. Noted May 26.

Mass., Boston—Chase & Gilbert, Inc., general contractors, Park Sq. Bldg., heating, ventilating, plumbing for addition to college of pharmacy, to Downey Co., 99 West Dedham St.; electric wiring, to H. M. Haley Electric Co., 165 Pearl St., for Massachusetts College of Pharmacy, 179 Longwood Ave. Noted Apr. 28, under "Contracts Awarded."

Mass., Brookline — New England Telephone & Telegraph Co., 50 Oliver St., Boston, 2 story, basement, 35 x 168 ft. and 20 x 24 ft. ell, brick, concrete addition to Aspinwall Telephone Exchange, to J. F. Fitzgerald Constr. Co., 38 Chauncy St., Boston. $80,000. Noted June 2.

Mass., Springfield—Springfield National Bank, E. J. Wheeler, pres., rebuilding 5 story, 55 x 85 ft., brick, steel business, bank and store building, to E. J. Pinney, Inc., 220 Dwight St. Est. $150,000. Noted June 2.

Mo., St. Louis—Premium Realty & Investment Co., c/o S. R. Baer, c/o Stix, Baer & Fuller Dry Goods Co., 6th and Washington Aves., 2 story, basement, 100 x 152 ft., store, office, Grand and Olive Sts., to H. B. Deal & Co., Inc., 1218 Olive St. Noted May 26.

N. J., Clifton—Bd. Educ., High School Bldg., bids in September, general contract 2 story, basement addition to School 15, Gregory Ave. $200,000. Lee & Hewitt, 152 Market St., Paterson, archts. Noted Jan. 23.

N. J., Englewood—Gray Cables Corp., c/o G. Keister, archt., 56 West 45th St., New York, 6 story, basement, brick, steel apartment, Phelps Ave. and Golf Pl., separate contracts, $650,000.

N. J., Fort Lee—P. C. Reilly, archt., 111 5th Ave., New York, rejected bids 3 story, basement, 70 x 215 ft., brick, steel, parochial school, Main St., for Sisters of Institute of Holy Angels, M. Corona, superior, Main St. $200,000. Noted Apr. 28.

N. J., Montclair—Friends Central School, general contract 2½ story, basement, brick, steel meeting house, to M. Young, 2037 North 63rd St., Phila., Pa. Est. $150,000. Noted June 16.

N. J., Teaneck—St. Anastasias Roman Catholic Church, Robinson St., general contract 2 story, basement, 100 x 125 ft., brick, steel, stone school, church, to E. J. Duffy, Inc., 303 West 42nd St., New York. Est. $150,000. Noted June 9.

N. H., Dover—Leighton-Mitchell Co., general contractors, 99 Chauncy St., Boston, Mass., cut granite for Morrell Business Block, to Simbroco Stone Co., 270 Baker St., West Roxbury, Mass.; structural steel, to H. T. Ripley, Inc., 80 Boylston St., Boston, Mass., for Mrs. A. Morrelly, 538 Central Ave. Noted May 19, under "Contracts Awarded."

N. Y., New York—Seven Hundred Fifty Park Avenue Corp., 420 Lexington Ave., 19 story, 47 x 92 ft. apartment, store, Park Ave. and 72nd St., to Geekie Naughton Co., 420 Lexington Ave. Est. $700,000. Noted June 16.

O., Granville — Denison University, financing library, dormitory and biology building project. **Maturity after October.** Bids in, indefinite whether new bids will be taken. Gehron & Ross, 101 Park Ave., New York, archts. Noted Feb. 25.

Ore., Tillamook—Tillamook Co., general contract 2 story, basement, brick, steel court house, to L. H. Hoffman, Pub. Serv. Bldg., Portland, $102,593; heating, to C. P. Yant, Corvallis, $10,827; electrical work and wiring, to W. L. Grasse, Portland, $2,948; plumbing, to G. Burkhard, Tillamook, $5,080. Grand total $121,448. Noted May 26.

Wash., Seattle—Seattle Art Institute, R. E. Fuller, 2 story, basement, 80 x 240 ft. museum, to P. P. Gjarde, Lyon Bldg., $235,000. Noted Jan. 21.

Industrial Buildings

PROPOSED WORK

Ill., Centralia—OIL STORAGE—Milton Oil Co., bulk oil storage. $40,000.

Ill., Hillsboro—LIGHT and POWER PLANT—Municipality plans electric light and power plant. Warren & Van Pragg, Decatur, engrs.

Ind., Anderson—STORAGE—Sears Roebuck & Co., Arthington and South Homan Aves., repairing storage, distribution and store damaged by fire. $40,000. **Maturity indefinite.**

Ind., Indianapolis—WAREHOUSE—Salvation Army, 719 North State St., Chicago, Ill., sketches by A. C. Fehlow, 719 North State St., Chicago, Ill., 3 story, basement, 44 x 100 ft. warehouse addition. $50,000.

Ind., Marion—PRINTING PLANT—R. J. Spencer, plans printing plant. To exceed $40,000. Peerless Printing Co., Marion, lessee.

Ind., St. Meinrad—POWER PLANT—See "Waterworks."

Ia., Sioux City—OIL STORAGE—Hanfords, Inc., 500 Pearl St., bulk oil storage station.

Ill., Joliet—POWER PLANT—State, Springfield, plans by C. H. Hammond, 160 West La Salle St., Chicago, remodeling power plant, incl. two 400 hp. boilers, stokers, breaching, piping, at Old State Prison. $65,000. **Maturity in late summer.** L. A. Snider Eng. Co., 605 North Michigan Ave., Chicago, Ill. engrs.

Md., Salisbury—OIL and SERVICE STATIONS—Holt Oil Co. group bulk oil and service stations. To exceed $40,000.

Mich., Ann Arbor—PHOTOGRAPHIC LABORATORY, etc.—W. Armstrong, lessee, rebuilding or re-equipping building for photographic laboratory, studio and shop. $40,000.

Mass., Cambridge — WAREHOUSE — Jordan-Marsh Co., 450 Washington St., Boston, warehouse, near Kendall Sq. Architect not appointed.

Mass., Chelsea—PAINT SHOP and STORAGE—Thomas Lynch, 161 Shawmut St., paint shop and storage, 123 Pearl St. $40,000. Lynch Bros., 123 Pearl St., lessee.

Minn., Minneapolis—FACTORY—Lyle Culvert Pipe Co., 171 27th Ave. S. E., plans by Ekman, Holm & Co., 701 Phoenix Bldg., corrugated pipe factory.

Minn., Park Rapids—OIL STORAGE, etc.—J. W. Burns, bulk oil storage and distribution. $40,000.

Miss., Philadelphia — STORAGE, etc. — O. Seward, rebuilding storage and store. To exceed $40,000. **Maturity indefinite.** Wright Undertaking Co. and Philadelphia Hardware Co., Philadelphia, Miss., lessees.

Mo., Kansas City—PAINT and VARNISH PLANT—Sewall Paint & Varnish Co., 1009 West 8th St., rebuilding paint and varnish plant, recently destroyed. $200,000.

Mont., Conrad—REFINERY—Conrad Refining Co. plans refinery. To exceed $75,000.

New Hampshire—SERVICE STATIONS—New Hampshire Oil Co., Islington St., Portsmouth, group service stations at Exeter, Dover and Rye. To exceed $40,000.

N. J., Clifton—PLANT—Kirman Rug Co., Clifton, and Kingsland Rd., Nutley, rebuilding plant, destroyed by fire. To exceed $75,000. **Maturity indefinite.** Location not decided.

N. J., Englewood—STORAGE PLANT—Home Fuel Oil Co., M. Niarron, in charge, 233 River Dr., Passaic, 1 and 2 story, basement, brick, steel, Brinkerhoff and North Forest Aves. $40,000. **Maturity soon.**

N. J., Little Falls — LAUNDRY PLANT — Little Falls Laundry Co., 101 Main St., sketches by F. W. Wentworth, 140 Market St., Paterson, 2 story, basement addition. $40,000.

N. J., Newark—LAUNDRY PLANT—Garrabrants & Zumbusch, archts., 380 Main St., East Orange, bids in August on revised plans general contract altering and constructing 1 story addition, South 16th St., for Royal Laundry Service, Inc., 771 South 16th St. $40,000. Noted May 12.

N. J., Paterson — SILK FACTORY — Harris Bros. Silk Co., 202 Union Ave., Paterson, bids in August, general contract 1 and 2 story addition, Union Ave. $40,000. Lee & Hewitt, 152 Market St., archts.

N. J., Paterson—GARAGE—Owner, c/o Goodman & Shulman, archts., 20 Smith St., 2 story, basement, brick, steel garage. $40,000.

N. J., Secaucus — LABORATORY — Bd. Freeholders Hudson Co., Court House, sketches by F. J. Radigan, engr. and archt., 591 Summit Ave., Jersey City, 2 story, basement, brick, steel, Laurel Hill. $40,000. Noted June 16.

N. J., Woodbridge—FACTORY—Owner, c/o J. Anderson, archt., 251 North Broad St., Elizabeth, sketches altering and constructing 2 story, basement, brick, steel addition. $40,000.

N. Y., Bellerose—GARAGE—M. Abels, 44 Court St., Brooklyn, plans by Lama & Proskauer, 393 Jay St., Brooklyn, 1 story, 25 x 60 ft. service and gas station, Cross Island Blvd. and 195th St.

N. Y., Brooklyn — LAUNDRY — Academy Custom Laundry, J. Beitman, pres., 813-63rd St., plans by B. Chester, 26 Court St., altering and constructing 3 story, brick top addition, 63rd St. and 8th Ave.

N. Y., Brooklyn — GARAGE, etc. — Bender Bros., 167 Front St., Mineola, plans by M. Klein, 65 Court St., altering and rebuilding 2nd story, brick garage and gas station, Union Ave. and Devoe St.

N. Y., Brooklyn—GARAGE, etc.—T. and L. Cinque, 511 Ocean Ave., plans by F. Liese, 34 Schermerhorn St., 3 story, garage and shop extension, Nevins and Sackett Sts.

N. Y., Brooklyn—GARAGE—M. Friedman, 236 Montgomery St., bids about October, general and separate contracts 109 x 120 ft. service garage, Utica Ave. and Winthrop St. S. L. Malkind, 93 Court St., archt. Noted June 16.

N. Y., Brooklyn—SERVICE STATION, etc.—Herman Bros., Inc., 778 5th Ave., plans by S. Gardstein, 44 Court St., 1 story, 25 x 70 ft. service station, auto laundry, 35th St. and 8th Ave.

N. Y., Brooklyn—PLANT—C. Pfizer & Co., 11 Wallabout St., plans by M. Brauer, 391 Fulton St. altering plant and equipment.

N. Y., Brooklyn—FACTORY—G. H. Wurshel, Lexington and Classon Aves., plans by J. J. Carroll, 225 Greene Ave., 2 story, brick, concrete extension.

N. Y., Buffalo—WAREHOUSE, etc.—Amer. Terminal Warehouse Co., 2050 Elmwood Ave., warehouse and laundry. $100,000. Riverside Serv. Corp., 2151 Niagara St. and Sexton Laundry Co., 64 Prairie St., lessees.

N. Y., Diana—POWER PLANT, etc.—Bonaparte Light & Water Co., c/o A. G. and G. W. Shoemaker, electric power plant and distribution system. Applied to Pub. Serv. Comn. for permit.

N. Y., Frankfort—POWER PLANT—Village Comn. steam power electric plant. $110,000. F. T. Bolster, Rome, consult. engr.

N. Y., Fulton—TEXTILE MILL—American Woolen Mills, repairing textile mill recently damaged by fire. $100,000. **Maturity indefinite.**

N. Y., Glendale—GARAGE—Masins Construction Co., 26 Court St., Brooklyn, plans by H. Spencer, c/o owner, 1 story, 27 x 61 ft. service garage, 88th St. and 72nd Ave.

N. Y., Jamaica—SERVICE STATION, etc.—M. Kivovitz, 671 Crown St., Brooklyn, plans by Kavy & Kavovitt, 350 Stone St., Brooklyn, 1 story, brick service station, testing and repair pits, pumps, Hillside Ave. and 244th St.

N. Y., Jamestown — BAKING PLANT — Citizens Baking Co., C. N. Bargar, pres., soon lets contract remodeling and equipment of manufacturing building into baking plant, Sprague and Baker Sts.

N. Y., Long Island City—SERVICE STATION, etc.—Stuyvesant Realty Co., Penn. Terminal Bldg., New York, service station, pits, tank and repair building, Skillman Ave. and 43rd St. Private plans.

N. Y., New York—GARAGE—C. H. C. Beakes Estate & Beakes Dairy, 11th Ave. and 46th St., bids after July 1, general contract altering stables and warehouse into service garage, 12th St., and Stuyvesant Alley. $40,000. Noted June 9.

N. Y., New York—STORAGE—Claremont Development Corp., H. A. Jobson, in charge, 535 5th Ave., plans by T. B. Platt & Bro., 221 West 57th St., 2 story, 95 x 102 ft. brick, storage restaurant and kitchen, Wythe Pl. and 170th St. To exeed $45,000.

N. Y., New York—POWER PLANT—July 6, by Bd. Higher Educ., 139th St. and Convent Ave., repairing and putting into complete operating condition 4 Babcock & Wilcox water boilers 2, 3, 5 and 6, in boiler room City College, furnishing, installing in each boiler, set of grates and soot blowers.

N. Y., Syracuse—FURNITURE STORAGE—I. Fleishman & Sons, Syracuse, rebuilding part furniture warehouse, 455 North Franklin St. Est. $40,000.

Industrial Buildings (Continued)

N. C., Charlotte—WAREHOUSES, etc.—Reading Battery Co., J. T. Moore, genl. mgr., Reading, Pa., warehouse and assembly plant to supply jobbing trade of southeastern states.

N. C., Greenville — OIL STATIONS—C. F. Bland, Farmville, 1 or more bulk oil stations and distribution. To exceed $40,000.

N. C., High Point—PLANT—Carolina Container Corp., Prospect Rd., making plans 1 story plant addition. $40,000, incl. equipment.

N. C., Raleigh—MACHINE SHOPS, etc.—Seaboard Air Line R.R., W. D. Faucette, ch. engr., Norfolk, Va., rebuilding railroad machine shops and round house, Johnson St., recently destroyed by fire, also replacing damaged equipment.

N. C., Thomasville—VENEER PLANT—North State Veneer Co., Thomasville, rebuilding plant, destroyed by fire. $45,000 or more.

O., Akron—FACTORY—Palmer Match Co., Corey Ave., Kenmore, expanding its factories in Akron district, additional machinery, etc. $100,000. Private plans.

Ore., Stayton—POWER PLANT — Mountain State Power Co., power plant. $45,000. J. K. Jorgeson, Medford, engr.

Pa., Phila.—AUTOMOTIVE MANUFACTURING—J. G. Brill Co., 62nd St. and Woodland Ave., altering and equipment in automotive manufacturing plant in connection with combining motors division of American Car & Fdry. Co., Detroit, Mich. with Brill plant here. Est. $40,000.

Pa., Phila.—BAKERY—Keegler-Weyl Baking Co., 260 North 22nd St., plans by C. Wunder, Architects Bldg., cake bakery, Allegheny Ave and Fox St. **Maturity latter part of year.**

Tex., Bullard — FACTORY — Bullard Crate Factory, rebuilding crate factory, recently destroyed by fire. $40,000.

Tex., Dallas—PLANT—Dallas Rug Mfg. & Renovating Co., M. Manzeheimer, in charge, 1710 South Pearl St., South Dallas, rebuilding portion plant, damaged by fire. $40,000.

Tex., Sherman—FLOUR MILL—Commander-Larabee Corp., 661 New Cham. Com., Minneapolis, Minn., acquired G. V. R. Smith Milling Co., and plans additions to same. $40,000, incl. equipment. **Maturity indefinite.**

R. I., Harrisville—TEXTILE MILL—Service Dyeing & Winding Co., Central Falls, acquired former Granite Mill of American Woolen Co., plans altering and equipping same for buyers use and moving Central Falls plant to new location. To exceed $40,000.

S. D., Aberdeen—POWER PLANT—City election in August, $850,000, municipal electric power plant and distribution system. Bemis Co., 332 South Michigan Ave., Chicago, Ill., engr. Noted Dec. 3.

Utah, Salt Lake City—POWER PLANT—Owner, c/o C. T. Van Winkle, engr., Salt Lake City, hydro-electric plant in Parleys Canyon by pumping water from Spiro Tunnel over divide (120 ft. lift) and dropping it down Parleys Canyon (1,500 ft. head).

Va., Alexandria—OIL STORAGE—W. R. Smallwood, 1410 H St. N.W., Wash., D. C., bulk oil storage. $40,000.

Wash., Sunnyside — FACTORY — Evaporated Fruits, Inc. plans to replace manufacturing unit destroyed by fire. $100,000 loss. C. C. Ross, mgr.

Wis., Sheboygan—OIL STORAGE, etc.—C. O. Larson, 1737 Geele Ave., bulk oil storage and distribution. $40,000.

Ont., Port Stanley—STORAGE REFINERY—Shell Oil Co. of Canada, W. Fowlie, mgr., Federal Bldg., Toronto, acquired 3 acre tract on lake front and plans 5 m.g.c. oil and gasoline storage plant.

B. C., Greenwood—POWER PLANT—Wellington Beaverdale Syndicate soon takes bids power plant. $150,000.

B. C., North Vancouver—POWER PLANT, etc.—Capiland Timber Co. Ltd., power plant, shingle mill, lath mill and saw mill. $250,000.

Man., Winnipeg — STEEL FABRICATION PLANT—Winnipeg Bridge Co. Ltd., Lombard Bldg., addition to present plant, St. Joseph and Grandin Sts.

Man., Winnipeg—MANUFACTURING—Ault & Wiborg Co. of Canada, 179 Bannatyne Ave., printer's ink and printer's rollers manufacturing plant, Henry and Stanley Sts. Architect not appointed.

Man., Winnipeg—PLANT—Asphaltic Oils Ltd. petroleum, carbon oils, etc. producing and refining plant. $50,000.

Ont., Midland—STORAGE—Letherby, Terry & Nicholson, Midland, lumber storage and distribution. To exceed $50,000.

Ont., Niagara Falls — PLANT — Niagara Searchlight Co., 800 Ferry St., Niagara Falls, N. Y., 1 story branch plant. $40,000.

Ont., Orillia—BARREL FACTORY—G. Milligan, rebuilding plant, destroyed by fire. $40,000.

Ont., Welland—PLANT—American Manganese Steel Co., A. W. Daniels of Chicago office, 333 North Michigan Ave., Chicago, Ill., in charge, plans plant. $500,000. **Maturity after Oct. 15.** Noted June 2.

Que., Saint Jules—MILL—Camille Pare Mill, replacing wood mill, recently destroyed. $40,000.

Que., Sorel—PLANT—Sorel Steel Foundries Ltd., plant addition. To exceed $40,000.

BIDS ASKED

Ia., Indianola — OIL STORAGE, etc. — See "Contracts Awarded."

Mo., St. Louis — EXCHANGE — See "Contracts Awarded."

Neb., St. Edwards — POWER PLANT — City bids about June 30, on revised plans municipal light and power plant. $57,108. C. V. Barnhill, 420 Federal Trust Bldg., Lincoln, engr. Noted June 23.

N. J., Hillside—GARAGE, etc.—Construction Service Corp., archt., 80 Broad St., Elizabeth, bids about Aug. 15, on revised plans 1 story, basement, brick, steel garage and showroom, North Broad St., for Hillside Chevrolet Co., M. Bloom, pres., 331 East Jersey Ave., Elizabeth. $40,000. Noted Apr. 21.

N. J., Little Falls—GARAGE—F. W. Wentworth, archt., 140 Market St., Paterson, bids about July 15, general contract 2 and 3 story, basement, 140 x 280 ft., brick, steel, Main St., for Little Falls Laundry Co., 101 Main St. $175,000. O. E. Goldschmidt, 110 West 40th St., New York, mechanical engr. Noted Mar. 31.

N. J., Newark — GARAGE and OFFICE — June 28, by A. Peter, archt., 207 Market St., general and separate contracts 1 story, basement, brick, steel, Avon Ave., for G. Jaekel, 131 Avon Ave. Est. $40,000.

N. J., South Orange—GARAGE—J. F. Burrowes, archt., 505 Main St., East Orange, taking bids general and separate contracts 1 story, basement, brick, steel, Massell Terrace and Valley St., for Kolby & Cruse, Inc., Valley St. $40,000.

N. Y., Beacon—MACHINE and WORK SHOP—July 28, by Dpt. Correction, State Office Bldg., Albany, machine and work shop, inmates buildings, propagating house, service connections, for Matteawan State Hospitals.

N. Y., Bedford Hills—POWER PLANT—July 12, by Commissioner Dpt. Correction, State Office Bldg., Albany, replacing power plant equipment, heating, at Westfield State Farm.

N. Y., Brooklyn—PACKING PLANT—See "Contracts Awarded."

N. Y., Brooklyn—GARAGE, etc.—See "Contracts Awarded."

N. Y., New York — WAREHOUSE — Northwestern Fruit & Products Co., 426 East 102th St., bids about Sept. 1, general contract altering garage and repair shop to produce storage, 126 East 102nd St. R. Gottlieb, 4756 3rd Ave., archt.

O., Oxford—WAREHOUSE—July 18, by T. S. Brindle, Dpt. P. Wks., Columbus, 2 story, basement, 64 x 150 ft., brick, rein.-con. food storage and preparation building, plain found., C. I. & W. R.R., for Bd. Trustees Miami University, $150,000. Garber & Woodward, 616 Walnut St., Cincinnati, archts. Fosdick & Hilmer, Union Trust Bldg., Cincinnati, engrs. Noted May 17.

O., Vermilion—FACTORY—Wakefield Brass Co., J. Schroeder, mgr., taking bids 1 story, brick, steel or corrugated iron siding and roof. $40,000. Private plans. Noted May 26.

Wis., Stevens Point—SERVICE STATIONS—See "Contracts Awarded."

Wis., Turtle Lake—DAIRY PLANT—Turtle Lake Creamery Co., F. Nieman, treas., taking bids 1 story, basement, 60 x 110 ft., rein.-con., brick plant. $40,000. E. F. Klinger, Amery, archt.

CONTRACTS AWARDED

Ill., Chicago — FACTORY — Westinghouse Electric Elevator Co., 1500 North Branch St., 1 story, 50 x 150 ft. addition, to A. L. Jackson, 310 South Michigan Ave. Est. $50,000.

Ind., Evansville — FACTORY — Mead-Johnson Co., factory building, St. Joseph and Ohio Aves., to M. J. Hoffman Co., Central Union Bank Bldg. Est. $40,000.

Ind., Indianapolis—PLANT—Firestone Serv. Co., 502 North Delaware St., brick, steel, 1030 East North St., to Serv-U-Well Co., 535 Architects Bldg. Est. $40,000.

Ind., Indianapolis — FOUNDRY — C. and G. Foundry Co., 1026 Kentucky Ave., 1 story, 160 x 160 ft. steel, 25th and Yandes Sts., to Serv-U-Well Co., 535 Architects Bldg. Est. $40,000.

Ia., Indianola—OIL STORAGE, etc.—H. G. Grant, 201 North F St., bulk oil storage and distribution, separate contracts.

Ia., Ames—POWER and LIGHT PLANT—City, A. B. Maxwell, clk., furnishing, erecting structural steel for addition to turbine room, to Des Moines Steel Co., 421 Southwest 4th St., Des Moines, $8,643; constructing 16 x 60 ft. addition to turbine room, to Ben Cole & Son, Ames, $7,902; furnishing one 3,000 kw. turbine generator, to General Electric Co., River Rd., Schenectady, N. Y., $57,000; furnishing one condenser and auxiliary equipment, to Foster-Wheeler Corp., 165 Bway., New York, $8,680. Grand total $82,225.

La., New Orleans—MILL ADDITION—Lane Cotton Mills, 2 story, 180 x 300 ft. addition, Tchoupitoulas St., near Valence, to George J. Glover Co., Whitney Bldg., $175,000.

Mass., Quincy — GARAGE, etc. — Coleman Bros., 245 State St., Boston, general contractor, structural steel for garage and office, Town River and Washington St., to Boston Bridge Wks., Binney St., Cambridge; miscellaneous iron, to W. A. Snow Iron Wks., 32 Portland St., Boston, for Standard Oil Co. of New York, 31 St. James Ave., Boston. Noted June 9, under "Contracts Awarded."

Minn., Waconia—POWER PLANT, etc.—City, electric power and light plant, power house, to O. H. Olson, 3907 Upton Ave. N., Minneapolis; diesel engine, etc., to Fairbanks Morse & Co., Park Sq., St. Paul; distribution system, to Fisher Electric Co., Waconia. Noted May 19.

Mo., Hannibal—GARAGE, etc.—State Hy. Comn., Jefferson City, 1 story, basement 66 x 98 ft. garage and 2 story, basement, 43 x 53 ft. division office, to M. E. Gilloiz, Monett, $64,900. Noted May 26.

Mo., St. Joseph—GARAGE—State Hy. Comn., Jefferson City, 1 story, basement, 66 x 98 ft. garage, 2 story, 1 basement, 143 x 53 ft. office, brick, rein-con. steel. Hys. 76 and 169 to H. Willeme, Marshall, $61,000.

Mo., St. Louis—EXCHANGE, etc.—Mississippi Valley Stockyards Co., H. Kiel, pres., Ambassador Bldg., 2 story exchange building, sheep yard and hog yard buildings, cattle pens, loading and unloading docks, trackage, Angelica and Penrose Sts., to Boaz-Kiel Constr. Co., Ambassador Bldg., 411 North 7th St. Est. $85,000. Taking bids on separate contracts.

N. J., Edgewater—CLEANING and DYEING PLANT—Lucht & Anderson, archts., 432 Palisade Ave., Cliffside, general contract 1 story, basement, brick, steel, 1040 River Rd., to H. Ulrich, 1045 Summit Ave., Jersey City, for C. Giesen, River Rd. Est. $40,000. Noted May 26.

N. J., Little Ferry—AUTO SERVICE STATION—J. Kalato, 221 Main St., Cliffside, general contract 1 story, basement, brick, steel, Hudson St., to F. Moronski, 201 DeSota Pl., Cliffside. Est. $40,000.

N. Y., Brooklyn—PACKING PLANT—Adolph Gobel, Inc., 40th St. and 11th Ave., New York, altering two 4 story buildings, for packing plant, day labor and separate contracts. O. S. Schlich, 136 Liberty St., New York, archt. and engr. Noted June 9.

N. Y., Brooklyn—LAUNDRY—Avenue Z Wet Wash Laundry, Avenue Z and 18th St., 2 story addition to Flannagan Constr. Corp., 191 Joralemon St. Noted June 9.

N. Y., Brooklyn—GAS STATION, etc.—R. Epstein, 271 Madison Ave., New York, 1 story, gas station, shop and garage, Remsen Ave. and Kings Highway, separate contracts. $40,000. T. Goldstone, 191 Joralemon St., archt.

N. Y., Brooklyn — GARAGE, etc. — Marine Building Corp., 1711 Neptune Ave., 1 story, brick, concrete garage, service and gas station, Neptune Ave. and West 19th St., separate contracts. M. Perlstein, 6737 75th St., Middle Village, archt.

N. Y., Brooklyn — MEAT PACKING PLANT—J. Morell & Co., Ottumwa, Ia., 2 story meat packing plant, Kent Ave. and 10th St., to Turner Constr. Co., Graybar Bldg., New York. Noted June 9.

N. Y., Brooklyn — GARAGE, etc. — Nakoma Realty Co., 1088 Jewell St., altering and constructing garage and storage addition, Frost and Leonard Sts., day labor and separate contracts. J. J. Millman, 191 Joralemon St., archt. Noted June 9.

N. Y., New York—WAREHOUSE—Belvedere Estates, Inc., 690 8th Ave., altering 5 story store, apartment into storage and stores, to Woolf Constr. Co., West 117th St., or c/o J. Eckmann, archt., 226 West 55th St. Est. $40,000. Noted June 9.

O., Cleveland—PACKING PLANT—Hughes Provision Co., W. Hughes, pres., 3199 West 65th St., 2 story, 35 x 75 ft., brick, steel, concrete addition, to Wm. Dunbar Co., 8201 Cedar Ave. Est. $40,000.

Okla., Oklahoma City — Kroger Baking Co., 810 Northwest 4th St., 1 story, basement, 100 x 160 ft. warehouse, 23rd St., to Austin Co., 510 North Dearborn St., Chicago, Ill., $125,000. Noted Apr. 28.

Pa., Oil City—REFINERY—Pennzoil Co., Oil City, 3,000 bbl. daily capacity gasoline cracking unit, McClintock, near here, to Arthur G. McKee Co., 2422 Euclid St., Cleveland, O. Est. $250,000.

Wis., Stevens Point—SERVICE STATIONS—Reliance Oil Co., Clark and 1st Sts., group service stations, separate contracts. $40,000.

See proposal advertising on page 38

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Chris-Craft Corporation, builders of world-renowned Speed Boats, owns 2 Plymouth Gasoline Locomotives. They write: *"Our twenty-five ton Plymouth Locomotive has given us perfect performance since in use and we might also say the same about our smaller locomotive which we purchased from you two or three years ago."*

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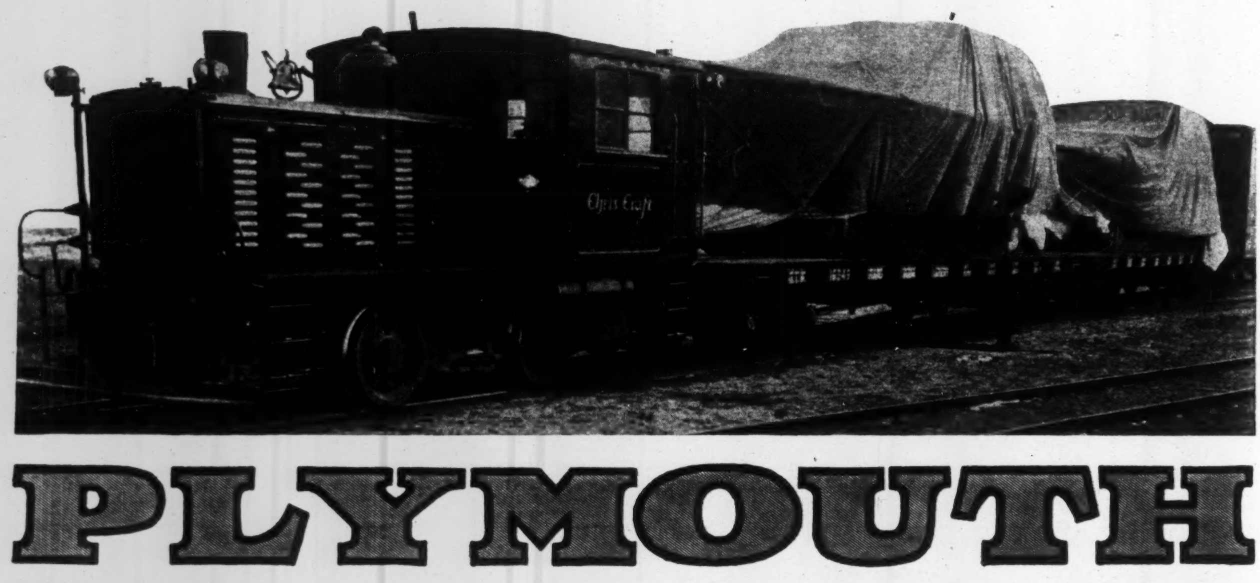

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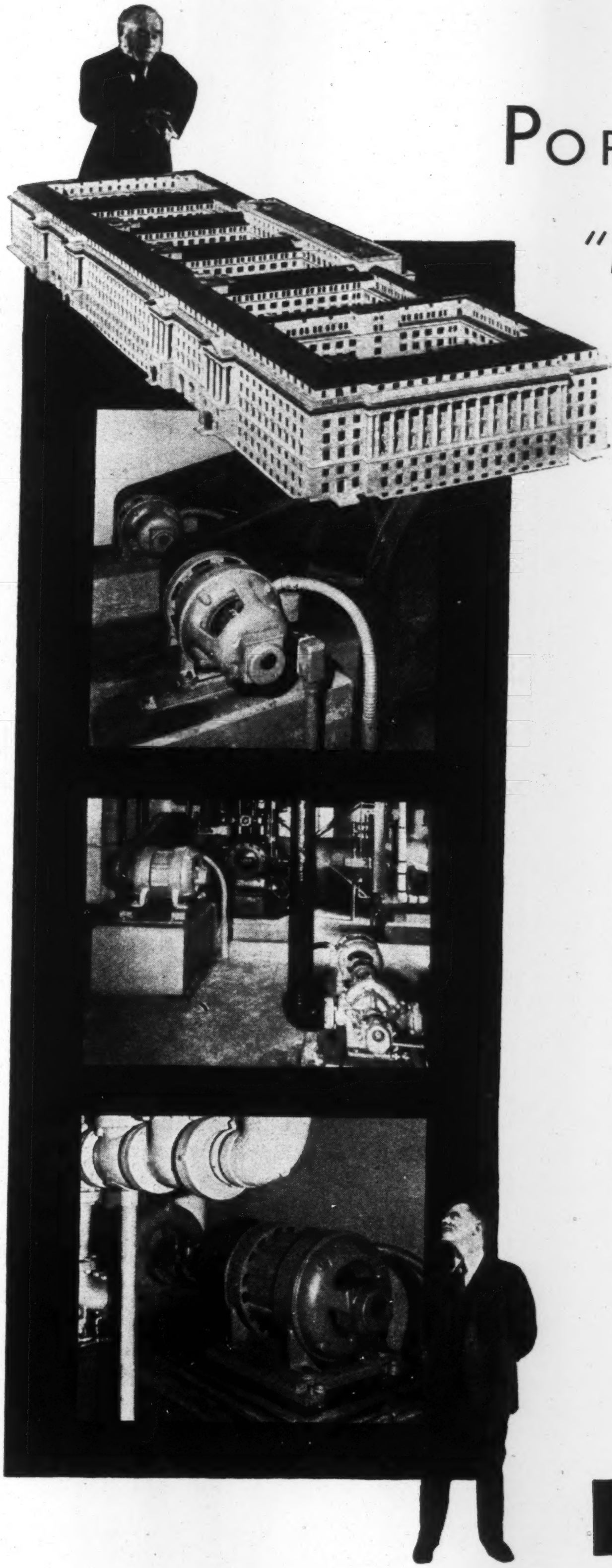

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"I see at least we got our money's worth in the motors. They're Lincoln *'Linc-Welds'*.

"That's more than you can say about some of the congressmen whose salaries our taxes help pay."

"Righto—and what's more, these *'Linc-Weld'* motors do more work with less noise.

"Of course, the *'Linc-Weld'* motors have that extra horse-power which gives them an advantage.

"But there are some good congressmen, and you'll find they generally stay on the job longest—like *'Linc-Welds.'*"

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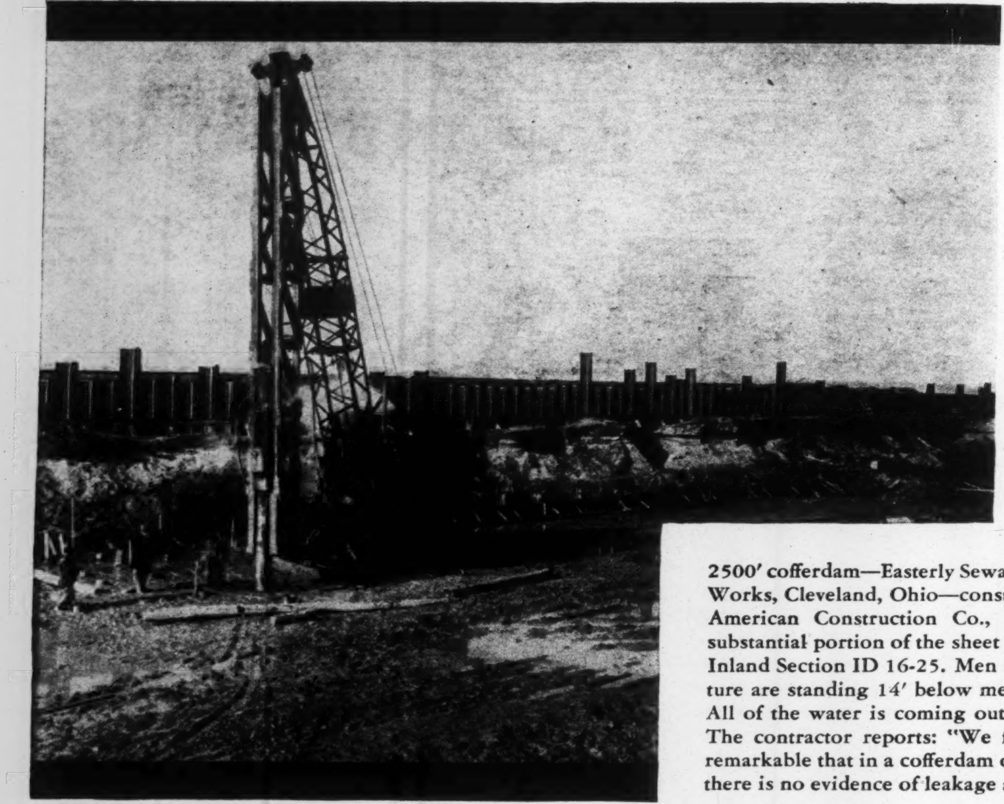

2500′ cofferdam—Easterly Sewage Treatment Works, Cleveland, Ohio—constructed by the American Construction Co., Cleveland. A substantial portion of the sheet piling used is Inland Section ID 16-25. Men shown in picture are standing 14′ below mean lake level. All of the water is coming out of the bank. The contractor reports: "We feel that it is remarkable that in a cofferdam of this length, there is no evidence of leakage at any point."

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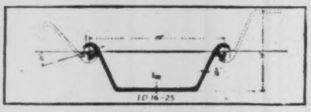
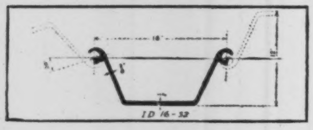
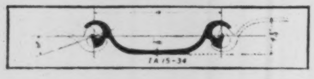
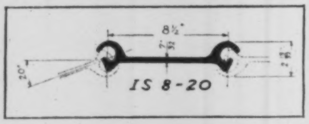
Other Sections Will Be Added Soon









Section No.	Width	Lbs. per Sq. Ft. of Wall
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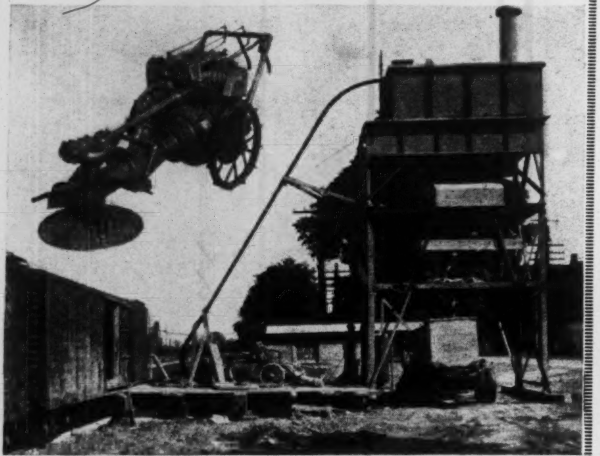

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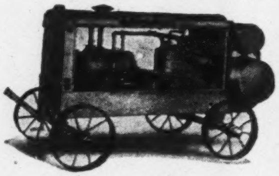

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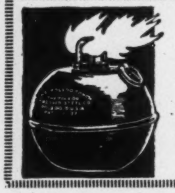

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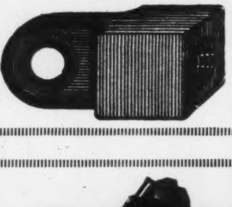

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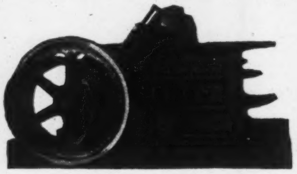

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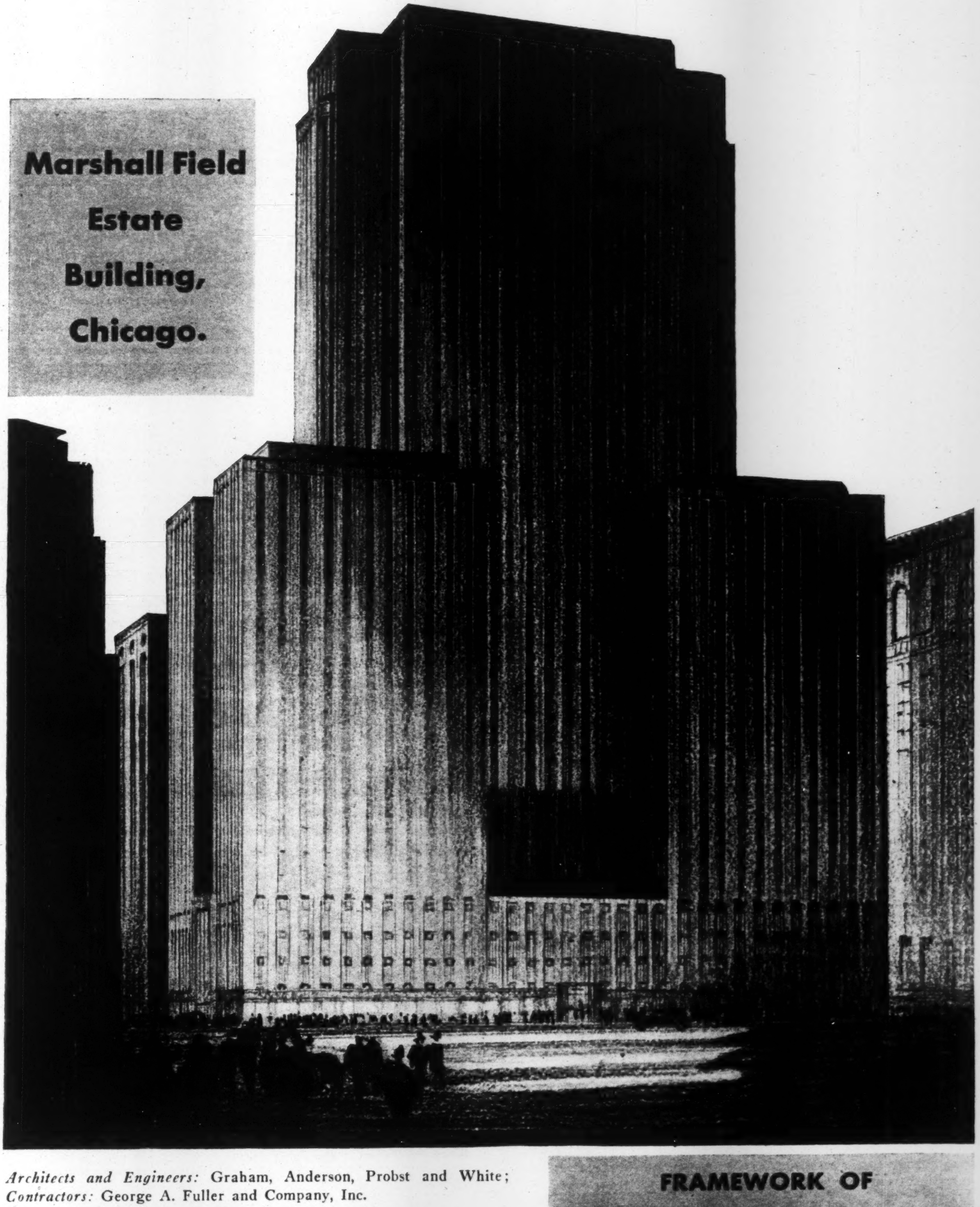

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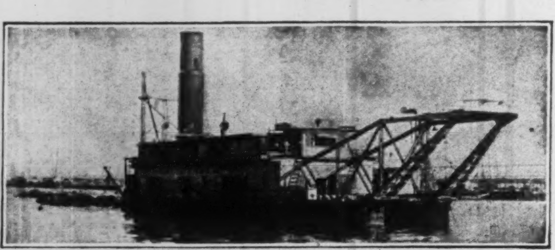

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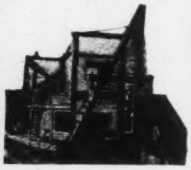

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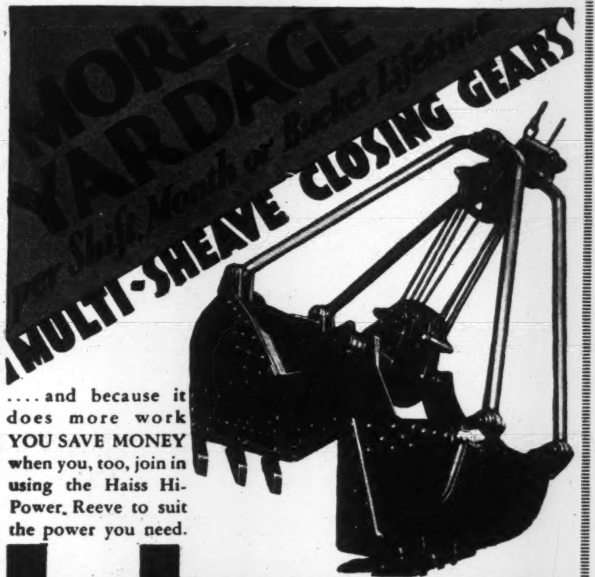
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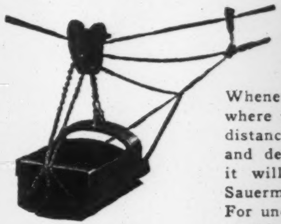

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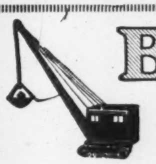

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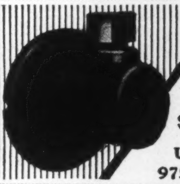

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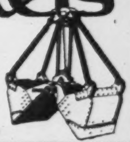

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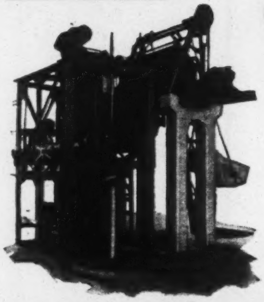

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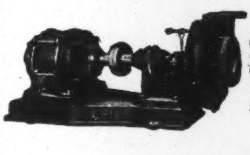

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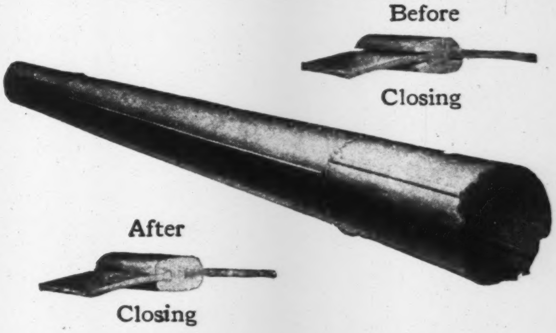

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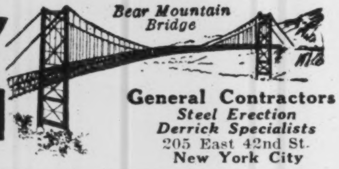

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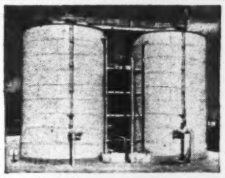
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SEARCHLIGHT SECTION

OFFICIAL PROPOSALS

Copy: Official Proposals reaching our New York Office by 10 A. M., Wednesday can usually be printed in the issue out Thursday. Holidays advance this time one day.

Rate:
40 Cents a Line an Insertion
Fractional lines count as full lines

Plans and Specifications for inspection by distant bidders may be filed at any of the Engineering News-Record offices without charge.

THESE ARE OFFICIAL NOTICES THAT BIDS ARE WANTED FROM BIDDERS EVERYWHERE

E. N.-R.

OFFICIAL PROPOSALS

Bids: July 5.

State Highway Work

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION
Baltimore, Md.

Sealed proposals for building two sections of State Highway as follows:

Talbot County—Contract No. T-50-211—One section of State Highway from Easton to Claiborne for a distance of 14.42 miles. (Concrete Shoulders).

Washington County — Contract No. W-112-62—one section of State Highway from the end of Contract No. W-91 at Fairview toward Cearfoss for a distance of 1.94 miles. (Macadam & Substructure for Bridge), will be received by the State Roads Commission at its offices, Federal Reserve Bank Building, Calvert and Lexington Sts., Baltimore, Maryland, until 12 M. on the 5th day of July, 1932, at which time and place they will be publicly opened and read. Prequalification of Bidders Required.

Bids must be made upon the blank proposal form which, with specifications and plans will be furnished by the Commission upon application and cash payment of $1.00, for each separate project, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check, payable to the State Roads Commission of Maryland, as required by Sec. 6, Chapter 539, Acts of 1931, of the amount as set forth in the proposal form.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 21st day of June, 1932.

G. CLINTON UHL, Chairman.
L. H. STEUART, Secretary

Bids: July 6.

Westchester County Road Construction

White Plains, N. Y.,
June 20, 1932.

Sealed proposals will be received by the County Engineer at the County Office Building, White Plains, N. Y., until 10 a.m. (D.S.T.) July 6, 1932, for the construction of Ossining, Bedford, and Manville Roads in the Village of Pleasantville as County Road 106, including concrete and brick sidewalks, concrete and granite curbs, retaining walls, and a substantial storm drain system;—length—0.63 miles; width—40 feet.

Principal approximate quantities are as follows:

Excavation	6,900 cu.yds.
Reinf. for Pav't	156,000 sq.ft.
Cement Conc. Pav't	3,850 cu.yds.
Curbing	6,800 lin.ft.
Reinf. Conc. Sidewalks	6,400 sq.ft.
Brick Sidewalks	2,500 sq.ft.
Portland Cement	7,000 bbls.
Masonry in Mortar	225 cu.yds.

Plans, specifications, proposal sheets and all information relative to same may be procured at the office of the County Engineer, upon making the required deposit of $10.00. This deposit will be refunded upon the return of the plans and specifications in good condition within 30 days of the date of receiving bids.

Certified check or draft in the amount of at least 5 per cent of bid shall accompany proposal.

JAY DOWNER,
County Engineer.

OFFICIAL PROPOSALS

Bids: July 6.

State Highway Work

STATE DEPARTMENT OF PUBLIC WORKS—DIVISION OF HIGHWAYS
ALBANY, N. Y.

Sealed proposals will be received by the undersigned at the State Office Building, 13th Floor, Albany, N. Y., until one o'clock p.m., advanced standard time, which is twelve o'clock noon eastern standard time, on Wednesday, July 6, 1932, for the construction of highways in the following counties:

	Deposit Required
CATTARAUGUS (Prel. Gravel Surfacing and Bit. Mac. Mixing Method Type 3: 9.57 miles)	$13,000.00
MONROE (Prel. Gravel Surfacing and Concrete: 3.84 and 3.03 miles)	$8,000.00 & 7,000.00
OTSEGO (Bit. Mac. Mixing Method, Type 3: 7.07 miles)	17,000.00
ALSO FOR THE RECONSTRUCTION OF THE FOLLOWING:	
ERIE (Completion) (Bit. Mac. Optional: 0.40 mile)	1,500.00
STEUBEN (180′ Truss, Bit. Mac. Mixing Method, Type 3 Approach: 0.04 mile)	3,000.00
ST. LAWRENCE (30′ I-Beam-Bit. Mac. Mixing Method Optional Approach: 0.33 mile)	2,000.00

Maps, plans, specifications, and estimates may be seen and proposal forms obtained at the office of the Department in Albany, N. Y., and also at the office of the District Engineers in whose district the roads are located, upon the payment of Five Dollars ($5.00) for plans and proposal forms. Standard specifications are Two Dollars ($2.00) per copy. Refund will not be made on plans, proposal forms or specifications. The addresses of the District Engineers and the counties in each district will be furnished upon request.

The especial attention of bidders is called to "General Information for Bidders" in the itemized proposal, specifications, and contract agreement.

A. W. BRANDT,
Commissioner of Highways.

Bids: July 12.

Steel Highway Bridges

DEPARTMENT OF PURCHASES AND CONSTRUCTION
SPRINGFIELD, ILLINOIS
June 16, 1932

Sealed proposals for Contract B-8, Superstructure of the Smith's Highway Bridge at Channahon, Ill., and Contract B-20, Superstructure of the Illinois River Bridge at Marseilles, Ill., will be received at the Springfield office of the Department until 10:00 a.m. Central Standard Time on July 12, 1932.

For further information apply to the Division of Waterways, 220 South State Street, Chicago.

U. S. Government

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 17, 1932.—Sealed bids, in duplicate subject to the conditions contained herein, will be publicly opened in this office at 3 p.m., July 22, 1932, for furnishing all labor and materials and performing all work for the construction of the *U. S. post office, etc., at Painesville, Ohio.* The prevailing rate of wage shall be paid all laborers and mechanics employed on the project as provided in the Act of March 3, 1931 (Public No. 798). Drawings and specifications, not exceeding three sets, may be obtained at this office in the discretion of the supervising architect by any satisfactory general contractor, and provided a deposit of $15.00 is made for each set to assure its prompt return. One set will be furnished builders' exchanges, chambers of commerce or other organizations who will guarantee to make them available for any sub-contractor or material firm interested, and to quantity surveyors, provided a deposit of $15.00 is made to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. Cash deposits will not be accepted. JAS. A. WETMORE, Acting Supervising Architect. (252)

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 18, 1932.—Sealed bids, in duplicate subject to the conditions contained herein, will be publicly opened in this office at 3 p.m., July 15, 1932, for furnishing all labor and materials and performing all work for the construction of the *U. S. inspection station at Rouses Point (Overton's Corners), N. Y.* The prevailing rate of wage shall be paid all laborers and mechanics employed on the project as provided in the Act of March 3, 1931 (Public No. 798). Drawings and specifications, not exceeding 3 sets, may be obtained at this office in the discretion of the supervising architect by any satisfactory general contractor, and provided a deposit of $15.00 is made for each set to assure its prompt return. One set will be furnished Builders' Exchanges, Chambers of Commerce or other organizations who will guarantee to make them available for any sub-contractor or material firm interested, and to quantity surveyors, provided a deposit of $15.00 is made to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. Cash deposits will not be accepted. JAS. A. WETMORE, Acting Supervising Architect. (253)

U. S. ENGINEER OFFICE, Jacksonville, Florida.—Sealed bids, in duplicate, will be received here until 12 o'clock noon, July 19, 1932, and then publicly opened, for furnishing all labor and materials and performing all work for *constructing* approximately 65,000 linear feet of *levee and navigation channel* along the south and east shore of *Lake Okeechobee, Florida*, involving the removal from the navigation channel and placing in levee of approximately 4,860,000 cubic yards of material, and the placing of 55,000 cubic yards of riprap along the berm. Further information on application. (254)

U. S. ENGINEER OFFICE, Norfolk, Va.—Sealed bids, in duplicate, will be received here until 3:00 p.m., July 15, 1932, and then publicly opened, for *dredging* approximately 1,120,000 cubic yards of material in *Dismal Swamp Canal, Va., and N. C.* Further information on application. (258)

(U. S. Gov. ads contd. on opposite page)

U. S. Government

(U. S. Govt. Ads continued from opposite page)

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 25, 1932.—Sealed bids, in duplicate subject to the conditions contained herein, will be publicly opened in this office at 3 p.m., July 26, 1932, for furnishing all labor and materials and performing all work for the *extension and remodeling* (except the elevator) of the *U. S. court house and post office at Fergus Falls, Minn.* The prevailing rate of wage shall be paid all laborers and mechanics employed on the project as provided in the Act of March 3, 1931 (Public No. 798). Drawings and specifications, not exceeding three sets, may be obtained at this office in the discretion of the supervising architect by any satisfactory general contractor, and provided a deposit of $25.00 is made for each set to assure its prompt return. One set will be furnished builders' exchanges, chambers of commerce or other organizations who will guarantee to make them available for any sub-contractor or material firm interested, and to quantity surveyors, provided a deposit of $25.00 is made to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. Cash deposits will not be accepted. JAS. A. WETMORE, Acting Supervising Architect. (2611)

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 24, 1932.—Sealed bids, in duplicate subject to the conditions contained herein, will be publicly opened in this office at 3 p.m., July 29, 1932, for furnishing all labor and materials and performing all work for the *construction* (except elevators) of the *U. S. post office, court house, etc., at Danville, Va.* The prevailing rate of wage shall be paid all laborers and mechanics employed on the project as provided in the Act of March 3, 1931 (Public No. 798). Drawings and specifications, not exceeding three sets, may be obtained at this office in the discretion of the supervising architect by any satisfactory general contractor, and provided a deposit of $25.00 is made for each set to assure its prompt return. One set will be furnished builders' exchanges, chambers of commerce or other organizations who will guarantee to make them available for any sub-contractor or material firm interested, and to quantity surveyors, provided a deposit of $25.00 is made to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. Cash deposits will not be accepted. JAS. A. WETMORE, Acting Supervising Architect. (2610)

U. S. ENGINEER OFFICE, Detroit, Mich.—Sealed bids, in duplicate, will be received until 11:00 a.m. Eastern Standard Time, July 15, 1922, for *dredging* about 1,767,000 cubic yards of material from channel at *Foot of Lake Huron,* near *Port Huron, Michigan.* Further information on application. (257)

U. S. ENGINEER OFFICE, 300 Custom House, Baltimore, Md.—Sealed proposals will be received here until 2.00 p.m. Eastern Standard Time, July 11, 1932, and then publicly opened for *dredging* in the *Cutoff Section of Channel leading to Baltimore,* material estimated to measure approximately 953,000 cubic yards, scow measure. (243)

OFFICE OF CONSTRUCTING QUARTERMASTER, Maxwell Field, Montgomery, Alabama.—Sealed proposals will be received here until 10:00 a.m., C.S.T., July 12, 1932, and then opened, for the construction of *Roads, Sidewalks and Driveways in the Officers' Area at Maxwell Field, Alabama.* Plans and specifications may be obtained from this office by deposit of $5.00. (249)

PROPOSALS for *Constructing Eight Non-Commissioned Officers' Double Quarters* will be received at the office of the Constructing Quartermaster, *Bolling Field, D. C.,* until 2:00 o'clock p.m., Eastern Standard Time, July 19, 1932 and then opened. Plans and specifications may be had upon application to that office accompanied by certified check for $10.00 payable to the Treasurer of the United States. (264)

(U. S. Govt. Ads continued on page 40)

OFFICIAL PROPOSALS

Bids: July 18.

Bridge

STATE OF NEW JERSEY
STATE HIGHWAY COMMISSION
TRENTON

Notice is hereby given that sealed bids will be received by the State Highway Commission for:

BRIDGE OVER SHARK RIVER,
ROUTE NO. 4 (1917)

For the construction of a bridge across Shark River on Route No. 4 (1917), between "F" Street, Belmar, and Main Street, Avon, in the County of Monmouth. The structure will consist of one double leaf simple trunnion bascule span, 90 ft. c. to c. of trunnions, and nine approach plate girder spans 83 ft. long, making a total length of bridge 853 ft. The principal items of construction are:

Estimated:

4,700 cu.yds. foundation excavation
8,950 cu.yds. concrete
3,400,000 lbs. structural steel
567,000 lbs. reinforcing steel
155,000 lbs. machinery and trunnions
108,000 lin.ft. wooden foundation piles
10,000 lin.ft. creosoted piles
27 M ft. B.M. creosoted timber
21 M ft. B.M. salt treated wood floor
26 units bronze lighting fixtures.

Bids for the above will be received at the office of the New Jersey State Highway Commission, State House Annex, Trenton, New Jersey, on Monday, July 18, 1932, at eleven o'clock—11:00 a.m. Eastern Standard Time (twelve o'clock Noon—12:00 Noon, DAYLIGHT SAVING TIME), and will be opened and read immediately thereafter.

The receipt and opening of bids is subject to the proper qualification of the bidder in accordance with the provisions of the prequalification law and the regulations adopted by the State Highway Commission. Bidders must submit a revised financial statement and statement of plan and equipment with their bid.

Drawings, specifications and form of bid, contract and bond for the proposed work are on file in the office of the State Highway Department, Trenton, N. J., and may be inspected by prospective bidders during business hours. Plans will be furnished on a deposit of Ten ($10.00) Dollars upon application to the State Highway Department, Room 102, State House Annex, Trenton, N. J. Bids must be made on the standard proposal forms in the manner designated in the 1926 standard specifications for State bridges, and must be enclosed in sealed special addressed envelopes bearing the name and address of the bidder and work bid upon on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the State of New Jersey for not less than $500.00 nor more than $20,000.00 and must be delivered at the above place on or before the hour named. Copies of the standard proposal form and special addressed envelopes will be furnished on application. Bids noe enclosed in special addressed envelopes will be considered informal and will not be opened. The right is reserved to reject any or all bids.

By order of the State Highway Commission.

A. LEE GROVER,
Chief Clerk.

Bids: July 8.

Pennsylvania Department of Highways, Harrisburg, Pennsylvania. Bids will be received July 8, 1932 for the construction of 6 road projects, totaling approximately 30 miles; construction to be reinforced concrete, bituminous surface treated macadam and bituminous surface course "A" or "E"; also for the construction of a two (2) span through truss bridge. Projects situated in the following counties:

Centre
Erie
Franklin-Huntingdon
Union
Westmoreland-Indiana (bridge)
Wyoming-Luzerne
York

Full particulars upon application to S. S. Lewis, Secretary of Highway, Harrisburg, Pennsylvania.

OFFICIAL PROPOSALS

Bids: July 11.

Pavement Widening

STATE OF NEW JERSEY
TRENTON
STATE HIGHWAY COMMISSION

Notice is hereby given that sealed bids will be received by the State Highway Commission for:

ROUTE 26, SECTIONS
4A, 5A, & RT. S-26 (WIDENING)

Fore the widening of the pavement on Route No. 26, Sections 4A-5A, and Route S-26, from Monmouth Junction Road to Cranbury Turnpike, in the County of Middlesex. Length 9.7 miles.

Estimated:

21,652 cu.yds. earth excavation
1,776 cu.yds. rock excavation
47,068 cu.yds. borrow
60,745 sq.yds. 9 in. rein. conc. pavement
332 sq.yds. 18 in. rein. conc. bridge approach slabs

Bids for the above will be received at the office of the New Jersey State Highway Commission, State House Annex, Trenton, New Jersey, on Monday, July 11th, 1932, at eleven o'clock—11 a.m. Eastern Standard Time (twelve o'clock noon—12:00 Noon, DAYLIGHT SAVING TIME), and will be opened and read immediately thereafter.

The receipt and opening of bids is subject to the proper qualification of the bidder in accordance with the provisions of the prequalification law and the regulations adopted by the State Highway Commission. Bidders must submit a revised financial statement and statement of plan and equipment with their bid.

Drawings, specifications and form of bid, contract and bond for the proposed work are on file in the office of the State Highway Department, Trenton, New Jersey, and may be inspected by prospective bidders during office hours. Plans will be furnished on a deposit of Ten ($10.00) Dollars upon application to the State Highway Department, Room 102, State House Annex, Trenton, N. J. Bids must be made on the standard proposal forms in the manner designated in the 1931 standard State Highway specifications, and must be enclosed in sealed special addressed envelopes bearing the name and address of the bidder and work bid upon on the outside, and must be accompanied by a certified check drawn to the order of the Treasurer of the State of New Jersey for not less than ten per cent (10%) of the amount of the bid, provided that the said certified check shall not be less than $500.00 nor more than $20,000.00 and must be delivered at the above place on or before the hour named. Copies of the standard proposal form and special addressed envelopes, together with the form of financial statement and statement of plan and equipment will be furnished on application. Bids not enclosed in special addressed envelopes will be considered informal and will not be opened. The right is reserved to reject any or all bids.

By order of the State Highway Commission.

A. LEE GROVER,
Chief Clerk.

Bids: July 18.

Sewage Treatment Plant

Cooperstown, N. Y.

Sealed proposals will be received at the Village Hall by the Village of Cooperstown, N. Y., until 5 p.m. Standard Time, July 18, 1932, for the construction of Sewage Treatment Plant at Cooperstown, N. Y.

Proposals shall be accompanied by certified check of $800.00. A surety company bond will be required in amount of 50% of the bid.

Plans and specifications are on file at the office of the Village Clerk. Copies of plans and specifications may be had upon application to the Engineer. A charge of $10.00 will be made therefor, one-half of which will be returned upon receipt of plans.

Right is reserved to reject any or all bids.

ALTON G. DUNN, Village Clerk.
Cooperstown, N. Y.

MORRELL VROOMAN, Engineer,
Gloversville, N. Y.

OFFICIAL PROPOSALS

Bids: July 12.

Construction of Highways

STATE DEPARTMENT OF PUBLIC WORKS—DIVISION OF HIGHWAYS
ALBANY, N. Y.

Sealed proposals will be received by the undersigned at the State Office Building, 13th Floor, Albany, N. Y., until one o'clock p.m. advanced standard time which is twelve o'clock noon eastern standard time, on Tuesday, July 12, 1932, for the construction of highways in the following counties:

	Deposit Required
BROOME (Cons. & Recon.).... (Prel. Gravel Surfacing: 6.13 miles.)	$10,000.00
CHAUTAUQUA .... (Bit. Mac. Mixing Method Type 3: 3.61 miles)	7,000.00
HAMILTON & WARREN...... (Prel. Gravel Surfacing: 14.88 miles.)	30,000.00
QUEENS .... (Furnishing Top Soil.)	250.00
NASSAU & QUEENS.......... (Sheet Type Concrete: 0.16 mile.)	1,500.00
ST. LAWRENCE............. (Prel. Gravel Surfacing: 6.96 miles.)	9,000.00
ALSO FOR THE RECONSTRUCTION OF THE FOLLOWING:	
GREENE .... (Bit. Mac. Pen. Method, Type 2: 1.04 miles.)	3,500.00
ONEIDA .... (Bridge—47' Rigid Frame Bit. Mac. Mixing Method Optional Approach: 0.02 mile.)	500.00
ROCKLAND .... (Concrete: 0.74 mile.)	4,200.00

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Department in Albany, N. Y., and also at the office of the District Engineers in whose district the roads are located, upon the payment of Five Dollars ($5.00) for plans and proposal forms. Plans and proposal forms may also be seen at the office of the State Department of Public Works, State Office Bldg., Worth and Center Streets, New York City. Standard specifications are Two Dollars ($2.00) per copy. Refund will not be made on plans, proposal forms or specifications. The addresses of the District Engineers and the counties in each district will be furnished upon request.

The especial attention of bidders is called to "General Information for Bidders" in the itemized proposal, specifications, and contract agreement.

A. W. BRANDT,
Commissioner of Highways.

U. S. Government

(U. S. Gov. ads cont'd from page 39)

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 21, 1932.—Sealed bids, in duplicate subject to the conditions contained herein, will be publicly opened in this office at 3 p.m., July 26, 1932, for furnishing all labor and materials and performing all work for the *construction of the U. S. post office, etc., at Wheaton, Ill.* The prevailing rate of wage shall be paid all laborers and mechanics employed on the project as provided in the Act of March 3, 1931 (Public No. 798). Drawings and specifications, not exceeding 3 sets, may be obtained at this office in the discretion of the supervising architect by any satisfactory general contractor and provided a deposit of $15.00 is made for each set to assure its prompt return. One set will be furnished builders' exchanges, chambers of commerce or other organizations who will guarantee to make them available for any sub-contractor or material firm interested. and to quantity surveyors, provided a deposit of $15.00 is made to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. Cash deposits will not be accepted. JAS A. WETMORE, Acting Supervising Architect. (262)

U. S. Government

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 22, 1932.—Sealed bids, in duplicate subject to the conditions contained herein, will be publicly opened in this office at 3 p.m., Aug. 3, 1932, for furnishing all labor and materials and performing all work *for Construction* (except elevators and caissons) of the *U. S. appraisers stores building at Chicago, Ill.* The prevailing rate of wage shall be paid all laborers and mechanics employed on the project as provided in the Act of March 3, 1931 (Public No. 798). Drawings and specifications, not exceeding six (6) sets, may be obtained at this office in the discretion of the supervising architect by any satisfactory general contractor, and provided a deposit of $50 is made for each set to assure its prompt return. One set will be furnished builders' exchanges, chambers of commerce or other organizations who will guarantee to make them available for any sub-contractor or material firm interested, and to quantity surveyors, provided a deposit of $50 is made to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. Cash deposits will not be accepted. JAS. A. WETMORE, Acting Supervising Architect. (269)

U. S. ENGINEER OFFICE, Norfolk, Va.—Sealed Bids, in duplicate, will be received here until 2 p.m., July 15, 1932, and then publicly opened, for *constructing and delivering 2 triple expansion pumping engines* Further information on application. (268)

U. S. ENGINEER OFFICE, Wilmington, Del.—Sealed bids will be received here until 2 p.m., Eastern Standard Time, July 21, 1932, and then opened for furnishing all labor and materials and performing all work for *dredging* approximately 58,000 cu.yds. of material from *Smyrna River, Del.* Further information on application. (261)

U. S. Government

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., June 20, 1932.—Sealed bids, in duplicate subject to the conditions contained herein, will be publicly opened in this office at 3 p.m., July 19, 1932, for furnishing all labor and materials and performing all work for the *construction* of the *U. S. post office, etc., at Freeport, N. Y.* The prevailing rate of wage shall be paid all laborers and mechanics employed on the project as provided in the Act of March 3, 1931 (Public No. 798). Drawings and specifications, not exceeding three sets, may be obtained at this office in the discretion of the supervising architect by any satisfactory general contractor, and provided a deposit of $15.00 is made for each set to assure its prompt return. One set will be furnished builders' exchanges, chambers of commerce or other organizations who will guarantee to make them available for any sub-contractor or material firm interested, and to quantity surveyors, provided a deposit of $15.00 is made to assure its prompt return. Checks offered as deposits must be made payable to the order of the Treasurer of the United States. Cash deposits will not be accepted. JAS. A. WETMORE, Acting Supervising Architect. (265)

U. S. ENGINEER OFFICE, Huntington, W. Va.—Sealed proposals will be received until 10:00 a.m., July 30, 1932, and then opened for constructing *roller dam and permanent lock gate at Marmet, W. Va.*, on Great Kanawha River, about nine miles above Charleston, W. Va. Further information on application. (263)

U. S. ENGINEER OFFICE, Providence, R. I. Sealed bids will be received here until 2 p.m., d.s.t., July 22, 1932, for *dredging* approximately 40,000 cu.yds. in *Housatonic River, Conn.* (267)

(U. S. Govt Ads continued on opposite page)

Get the lowest possible Bids commensurate with good work—

Naturally when you advertise for bids on your contracts to-be-let, you want low bids—but you also want the successful low bidder to give you a good job.

When you advertise your contracts in the Official Proposal Columns of *Engineering News-Record,* you get national publicity that reaches the larger contractors and construction companies who can bid low and still afford to give you good work, as a result of their better equipment and other facilities. Contractors everywhere are interested in bidding on work anywhere! Advertise your future contracts in these columns—it pays!

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Engineering News-Record
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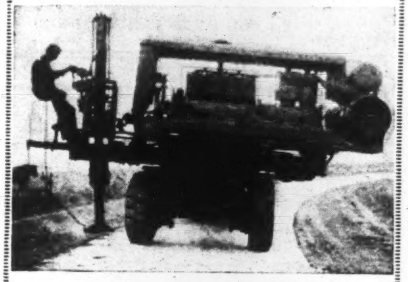

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17 Battery Place, New York City

U. S. Government

(U. S. Gov't. ads Con't. from opposite page)

U. S. ENGINEER OFFICE, Rock Island, Illinois.—Sealed proposals, in duplicate, will be received until 2:30 p.m., August 3, 1932, and then publicly opened, for furnishing all plant, labor and material for, and supplying, assembling and installing the following complete and ready for operation, and the necessary concrete foundations: *lock operating machinery* for two parallel locks, *power house equipment*, and *electric power and control system for Lock and Dam No.* 15, *Mississippi River*. Further information on application. (255)

OFFICE OF THE CONSTRUCTING QUARTERMASTER, Barksdale Field, Shreveport, La.—Sealed bids, in triplicate, will be received here until 10 a.m., July 7, 1932, and then publicly opened for the construction of certain *garages* at *Barksdale Field, Shreveport, La.* A deposit of $10.00, in the form of a check, payable to the Treasurer of the United States, is required to insure the return of plans and specifications. (251)

UNITED STATES ENGINEER OFFICE, Room 710 Army Building, 39 Whitehall St., New York, N. Y.—Sealed bids will be received until 12 M. (Daylight Saving Time), July 15, 1932, and then publicly opened, for furnishing all labor and materials and performing all work for *dredging* approximately 34,000 cubic yards of material other than ledge rock and for removing approximately 12,950 cubic yards of ledge rock in *East River, N. Y.*, and Newtown Creek, N. Y. (247)

OFFICIAL PROPOSALS

Bids: July 5.

State Highway Work

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION

Baltimore, Md.

Sealed proposals for furnishing and laying Bituminous Surface Course, Specification "C" along four sections of State Highway as follows:

Garrett County—Contract No. G-76-3-611—Federal Aid Project No. 252. Along the National Pike from the end of Contract No. A-86—G-70 at Chestnut Ridge to Keyser, for a distance of 7.44 miles.

Harford County—Contract No. H-149-2-411—Federal Aid Project No. 253-A—Along the Harford Road between Little Gunpowder Falls and the Belair Road, for a distance of 1.23 miles.

Prince George's County—Contract No. P-220-1-311—Along the Riggs Mills Road at Northwest Branch for a distance of 0.24 mile and thru the grounds of the University of Maryland at College Park, for a distance of 0.30 mile, total 0.54 mile.

Worcester County—Contract No. Wo-122-1-111—Federal Aid Project No. 254—Along the Snow Hill-Pocomoke Road in Snow Hill for a distance of 0.19 mile and from a point approximately 3.0 miles southwest of Snow Hill toward Pocomoke for a distance of 3.0 miles. Total, 3.19 miles, will be received by the State Roads Commission at its offices, Federal Reserve Bank Building, Calvert and Lexington Sts., Baltimore, Maryland, until 12 M. on the 5th day of July, 1932, at which time and place they will be publicly opened and read. Prequalification of Bidders Required.

Bids must be made upon the blank proposal form which, with specifications and plans will be furnished by the Commission upon application and cash payment of $1.00, for each separate project, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check, payable to the State Roads Commission of Maryland, as required by Sec. 6, Chapter 539, Acts of 1931, of the amount as set forth in the proposal form.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland, respecting contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 21st day of June, 1932.

G. CLINTON, UHL, Chairman.
L. H. STEUART, Secretary.

Bids: July 5.

Bridge

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION

Baltimore, Md.

Sealed proposals for bridge construction as follows:

FREDERICK COUNTY, Contract No. F167-57—Double 58' span, steel girder bridge with concrete floor (30'0" roadway) over Owen's Creek on the road from Rocky Ridge to Thurmont.

PRINCE GEORGE'S COUNTY, Contract No. P-211-37—Single 60' span, steel girder bridge with concrete floor (30'0" roadway, 2—5'0" sidewalks) over Indian Creek on Central Avenue at Berwyn.

will be received by the State Roads Commission at its offices, Federal Reserve Bank Building, Calvert and Lexington Sts., Baltimore, Maryland, until 12 M. on the 5th day of July, 1932, at which time and place they will be publicly opened and read. PREQUALIFICATION OF BIDDERS REQUIRED.

Bids must be made upon the blank proposal form which, with specifications and plans will be furnished by the Commission upon application and cash payment of $1.00, for each separate project, as hereafter no charges will be permitted.

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The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 21st day of June, 1932.

G. CLINTON UHL, Chairman.
L. H. STEUART, Secretary.

OFFICIAL PROPOSALS

Bids: July 19.

Sewage Treatment Plant

Portage, Wisconsin.

Sealed bids will be received by the Board of Public Works of the City of Portage, Wisconsin, at the office of the Board of Public Works in the City Hall, until 10:00 a.m. o'clock on the 19th day of July, 1932.

The work for which bids are invited will be paid for in cash and comprises the construction of an addition to the existing sewage treatment plant consisting of an Imhoff type primary settling tank, trickling filter and distribution equipment, sewage pumping station and screen chamber, final settling tank, sludge drying beds, all piping connection and appurtenances needed to complete the plant ready for operation.

The work shall be done in accordance with plans and specifications on file in the offices of the Board of Public Works of the City of Portage, Wis. Each proposal shall be accompanied by a certified check on a State or National Bank, payable to the Treasurer of the City of Portage, in the amount of $3,000.00. Proposals must be made on blank forms furnished by said Board of Public Work.

Notice to Contractors, Instructions of Bidders, Form of Proposal, Contract, Specification, Form of Bond, and Plans may be obtained from H. V. Tennant, City Engineer of the City of Portage, Wisconsin, or from Pearse, Greeley and Hansen, Consulting Engineers, 6 North Michigan Avenue, Chicago, Illinois, upon receipt of Fifteen Dollars ($15.00) which sum so deposited will be returned to those who submit bids. Ten Dollars ($10.00) of the said Fifteen Dollars will be returned to those who do not submit bids if said plans, specifications, etc., are returned.

Dated at Portage, Wisconsin, this 18th day of June, 1932.

Signed: D. H. ABELL,
Secretary, Board of Public Works,
City of Portage, Wisconsin.

Bids: August 2.

Refrigeration Work

Spec. No. 7179

Albany, N. Y.

Sealed proposals covering Refrigeration Work, Employees Home, Westfield State Farm, Bedford Hills, N. Y., in accordance with Specification No. 7179 and accompanying drawings, will be received by the Commissioner, Department of Correction, 17th Floor, State Office Building, Albany, N. Y., until one o'clock p.m. (Eastern Standard Time) on Tuesday, August 2, 1932.

Proposals shall be accompanied by a certified check or money deposit of 5% of the amount of the bid. Successful bidder will be required to give a bond in the sum of 50% of the amount of the contract. Corporations submitting proposals shall be authorized to do business in the State of New York. Drawings and specifications may be examined free of charge at the following offices:

Commissioner of Architecture, 80 Centre St., 8th Floor, State Office Building, New York City.
Commissioner of Architecture, 11th Floor, State Office Building, Albany, N. Y.
District Engineer, 109 N. Genesee St., Utica, N. Y.
District Engineer, Weighlock Building, Syracuse, N. Y.
District Engineer, Barge Canal Terminal, Rochester, N. Y.
District Engineer, 65 Court St., Buffalo, N. Y.
District Engineer, 71 Frederick St., Binghamton, N. Y.
Westfield State Farm, Bedford Hills, N. Y.

Proposal blanks and envelopes may be obtained and drawings and specifications may be purchased from the Commissioner of Architecture, 11th Floor, State Office Building, Albany. N. Y., upon a payment of $5.00 for each set of drawings and specifications.

Half of this payment will be returned if the drawings and specifications are returned in good condition to the Commissioner of Architecture, 11th Floor, State Office Building, Albany, N. Y., within two weeks after date of opening bids.
Dated: June 15, 1932.

EMPLOYMENT

AND OTHER BUSINESS OPPORTUNITIES

Positions Wanted. 5 cents a word, minimum charge $1.00 an insertion.
Positions Vacant and all other classifications, 10 cents a word, minimum $2.

Box Numbers in care of our New York, Chicago or San Francisco offices count as 10 words in addition to advertising copy.

Replies are forwarded each day as received at each of the offices mentioned without additional charge.

Discount of 10% is allowed if full payment is made in advance for 4 consecutive insertions.

THE ABOVE RATES ARE FOR ADVERTISEMENS SET UNDISPLAYED. FOR DISPLAY RATES SEE "USED EQUIPMENT" HEADING
COPY FOR NEW ADVERTISEMENTS RECEIVED UNTIL MONDAY FOR THURSDAY'S ISSUE. E.N.-R.

POSITION VACANT

WANTED: Engineer assayist who can invest with services for development of platinum concession in South America. Post Office Box 695, Tulsa, Okla.

EMPLOYMENT SERVICE

IF YOU are qualified for position between $2,500 and $25,000 and are receptive to negotiations for new connection, your response to this announcement is invited. The undersigned provides a thoroughly organized service, established twenty-two years ago, to conduct confidential preliminaries, and assist the qualified man in locating the particular position he desires. Not a registration bureau. Retaining fee protected by refund provision, as stipulated in our agreement. Send name and address only for description of service. R. W. Bixby, Inc., 272 Main Street, Buffalo, New York.

CONSTRUCTION managers, superintendents, sales managers, sales engineers, comptrollers, treasurers have for thirteen years engaged us. Individual. Confidential. Jacob Penn, Incorporated, 535 Fifth Avenue, New York.

EMPLOYMENT AGENCY

AMERICAN Engineers Service, Park Row Building, New York, desire for Eastern, Southern, Western and foreign employment proposals by record and letter, executive and assistant qualifications for buildings, bridges, oil refineries, public works, industrial plants.

POSITIONS WANTED

Civil Engineer

CHIEF of party, 16 years' experience topographical surveys. Location and right-of-way surveys for railroads and transmission lines. PW-10, Engineering News-Record, 330 West 42d St., New York.

Field Engineers

FIELD engineer, experienced on construction bridges, buildings, docks, oil refinery and railroad terminal facilities. PW-11, Engineering News-Record, 330 West 42d St., New York.

FIELD engineer experienced on construction canal locks, railroad structures and all types of highways and bridges. Working knowledge Spanish. Location immaterial. C. E. Langley, 835 Fifth Ave., Akron, O.

Structural Engineer

STRUCTURAL engineer, C.E., 40. 15 years' steel fabricators, chief engineer, estimator, sales, familiar with general construction, take anything anywhere. PW-21, Engineering News-Record, 330 West 42d St., New York City.

Superintendents

SUPERINTENDENT. Construction of bridges and roads. Graduate engineer, age 40. Fifteen years' experience. Moderate salary. PW-29, Engineering News-Record, 330 West 42d St., New York.

SUPERINTENDENT—a man with large experience in all lines of construction, large or small factories, apartments, houses, churches and schools. PW-23, Engineering News-Record, 330 West 42d St., New York City.

POSITIONS WANTED

GENERAL superintendent or superintendent, 25 years' experience handling large contracts, bridges, harbor work, dams, reservoirs, pipe lines, sewerage disposal plants, excavation work, foundations, and all heavy construction. PW-19, Engineering News-Record, 330 West 42d St., New York.

Miscellaneous

BUILDING construction man who has represented nationally known owners general contractors in executive position, also as construction manager in the field, desires position with general contractor. Have had extensive experience on public and state work. PW-37, Engineering News-Record, 330 West 42d St., New York.

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SURVEYING
INSTRUMENTS
SALE—RENT REPAIRING

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E-BUILT
EPAIR
ENT
EAL EXPERTS
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For Quick Disposal
Used Transits and Levels
Rebuilt, guaranteed, GURLEY'S and other good makes from $50 up. *Act quickly* Instruments Rented or Exchanged. *All makes repaired,* reasonable prices.
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1325 Cherry St., Philadelphia, Pa.
Established 35 years.

Notice to Advertisers!

Because of the Holiday, Independence Day, the *"Searchlight"* pages of the July 7th issue of

ENGINEERING NEWS-RECORD

will close in advance of the regular schedule.

Advertisers will please cooperate with us by sending new advertisements or changes of copy early.

FINAL CLOSING TIME

Display Ads: 5 P.M. Friday, July 1st.
Undisplayed Ads: 10 A.M. Tuesday, July 5th.

Official Proposals: 10 A.M. Wednesday, July 6th.

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How would you like to earn from $1 to $2 an hour for time now yielding you no profit? We have an exceptional position by which you can make money, spare or full time, without interfering with your present employment. You simply recommend and call to the attention of fellow employees and business men the most complete line of business and technical books ever published. Every kind of worker and business man finds in our books the ready reference knowledge that gives him the quick and valuable assistance in his daily work that will help him increase his daily earnings or his profits promptly and effectively and which once known about, he is eager to own. You can make ready cash quickly and easily each week by showing our lists to your associates and others. No experience required. Complete equipment, Free.

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McGRAW-HILL BOOK CO.
330 West 42d Street, New York City
C.A.

When Writing Your Ad

Provide an indexing or subject word.

Write it as the first word of your ad.

If it is a Position Wanted or Position Vacant ad, make the first word the kind of position sought or offered.

This will assure proper classification in the column. The right is reserved to reject, revise or properly classify all Want Advertisements.

Proper Classification

increases the possibility of

Prompt Returns

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AND NEW, OFFERED FOR RE-SALE, FOR RENT or WANTED

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appear on the page or two preceding as do also advertisements of Equipment Wanted and For Rent.

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DERRICK

Timber Stiff Leg Derrick with 76-ft. Boom arranged for bucket work together with three drum Hoist and Swinger. This outfit may be seen at work on our job adjacent to the Valhalla, N. Y., Railroad Station.

No reasonable offer refused.

TULLER CONSTRUCTION CO.
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Telephone: Red Bank 2440

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- **1—35 Ton Amer. Saddle Tank Loco.** New 1917. ASME Std.
- **1—80 Ton Amer. Switcher,** new boiler 1922. ASME Std.
- **8—12 Yd. Western steel beam dump cars.**
- **1—Byers No. 10 Steam caterpillar crane.** 40′ Boom.
- **1—P. & H. No. 206 Gas Crawler type crane.** 40′ Boom.

Many other items—rebuilt—priced low.
SOUTHERN IRON & EQUIPMENT CO., Atlanta, Georgia.

Real Bargains in Rebuilt Equipment

Shovels, cranes, draglines, hoes, clamshells,—gas, Diesel, steam. All makes. What do you need?

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Excavating Equipment Dealers, Inc.
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1030 W. Division St., Chicago, Ill.
1704 Willow Ave., Hoboken, N. J.
2248 E. 37th St., Los Angeles, Calif.
2657 Ninth St., Berkeley, Calif.

SHOVELS, CRANES, DRAGLINES

FOR SALE OR RENT

- 1—**Northwest** Type "M" Dragline, 50-ft. Boom, 7¼x9-in. Twin City Gas. Engine.
- 1—**Erie** Type "B" Steam Shovel. Located near Chicago. This shovel in good operating condition is offered at $2,250.
- 2—**Northwest** Model 105 1-yd. Shovels. Factory rebuilt and guaranteed. One equipped with 6¼x8-in. Twin City Engine. One with 6x7-in. Wisconsin Engine. Priced to sell.
- 1—Model 2 **Northwest** ½-yd. Shovel. This machine in good second-hand condition. Price $4,250.

Write—Telegraph or Phone

G. C. WILLIAMS
28 E. Jackson Blvd., Chicago, Ill.
Telephone—Wabash 9325

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FOR SALE OR LEASE
DEAL DIRECT WITH OWNER
CONSTRUCTION EQUIPMENT

- 1—Ransome 1-yd. Tower Mixer on caterpillars.
- 1—Knickerbocker, ½-yd. Portable Mixer.
- 1—Jaeger 10-S Portable Mixer.
- 1—Land Pile Driver on Skids—70-ft. leads.
- 1—Ea. 110-, 220-, 360-ft. Schramm Compressor.
- 1—Ea. 7B2, 9B2, 10B2, McKiernan-Terry Hammer.
- 1—Blaw-Knox Truck Turntable—New.
- 1—Portable Belt Conveyor, 18-in.x60-ft.
- 2—Horizontal Concrete Water-heating Boilers.
- 1—Mine Cage, 8-ft. 10-in. high, 6-ft. 5-in. wide at bottom and 3-ft. 6-in. at top.
- 1—1½-yd. Shovel Bucket.
- 1—1½-yd. Page Class C Dragline Bucket—New.

MARINE EQUIPMENT

- 3—Derrick Boats—6, 8, and 35 ton lift.
- 3—Pile Drivers—67, 68 and 72-ft. leads.
- 1—Concrete Tower Mixer—¾-yd.
- 1—Tug Boat—75 hp., full diesel.
- 1—Submarine Cut-off Saw Outfit.
- 2—Covered Barges.

135 South Cottage St., Valley Stream, N. Y.
Valley Stream 1400

Sauerman Slackline and Drag Scraper Units, Steam and Electric.

Sand and Gravel Washing and Screening Equipment.

Complete Plants for Stone Crushing, Sand and Gravel and Pulverizing.

Diesel Oil Engines, 90 to 500 hp.

Bucket Elevators.

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$1,500

40-ft. boom, full enclosed house, double power-drum with practically new motor, complete, ready for any job. Our prices $1,500 and up.

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Large selection on display in our THREE warehouses.

SPECIAL VALUES

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Pneumatic Tools
Pumps
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Track
Tractors
Towers—Steel
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CHICAGO—1155 S. Washtenaw Ave.
Phone Nevada 2400

PITTSBURGH—855 Empire Bldg.
Phone Grant 6100

Shovels, Crane, Etc.

FOR SALE

1—Factory rebuilt LIMA, 1¼-cu.yd. capacity. This machine can be equipped with either shovel, clamshell, dragline or dragshovel attachments. Very reasonably priced. Carries new machine guarantee. Located at Newark, N. J.

1—GA-2 Erie Gas-Air Shovel. Fine condition and bargain. Located Newark, N. J.

1—Koehring ¾-yd. Shovel. Excellent condition throughout. Located Newark, N. J.

1—Erie B Steam Shovel. In excellent condition. Also number of spare parts. Unusual bargain price. Located Brooklyn, N. Y.

1—Northwest ¾-yd. Crane. Very good condition, at low price. Located Brooklyn, N. Y.

1—Complete shovel attachment for Type "0" Thew. Decided bargain.

1—Heavy duty Osgood Steamer, combination shovel and crane. This machine is in A-1 working condition. A real bargain. Located Toledo, Ohio.

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Wire or phone nearest office at our expense.

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Good As New---Rebuilt Equipment

1—P. & H. No. 600—1½-yd. Dragline, 40-ft. boom, 4 cyl. gas.
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1—Koehring No. 501—1½-yd. Dragline, 40-ft. boom, 4 cyl. gas.
1—Northwest No. 700—1½-yd. Dragline, 50-ft. boom, 4 cyl. gas.
1—Koehring No. 501—1½-yd. Dragline, 40-ft. boom, Diesel engine.
4—Page Buckets—1½-yd. capacity.
1—P. & H. Bucket—1¼-yd. capacity.
9—60 Caterpillar Tractors.
1—60 Caterpillar Tractor with Bulldozer.
1—60 Caterpillar Tractor with Backfiller.
1—60 Best Tractor.
1—30 Caterpillar Tractor.
1—20 Caterpillar Tractor.
1—15 Caterpillar Tractor.
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1—Buda-Ross Turbine Generator, 1000 watts.
1—Lidgerwood Steam Hoist No. 74.
1—Novo Hoist Outfit No. P-1353.
1—No. 4-SLS Lidgerwood 2 Speed Hoist, 10x12 Engine.
1—Dorsey Stump Puller Rig No. 1566.
1—Complete 2-yd. Slack Line Tower Machine, Portable.

Ready to be loaded at East Prairie, Missouri.

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Brand New Wire Rope For Sale

2¼ in. dia. 6x37. Galv. Plow Steel 1106 ft.
2 in. dia. 6x19. plow steel, 550 ft.
1¾ in. dia. 6x19, Plow Steel, 900 ft., 690 ft., 740 ft., 720 ft., 410 ft.
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Also lot of 9/16 in. dia., ⅝ in. dia., ¾ in. dia.; ⅞ in. dia., 1 in. dia. and 1⅛ in. dia.—long and short lengths: Suitable for Guys, Hoisting, and dragline work. All ropes priced right for immediate sale. Send for complete list.

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3—Model B-F-5 Austin Backfillers. Excellent Condition.

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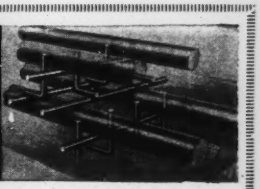

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OUT of present conditions will emerge the new materials, new machines and new methods that will provide the foundation for our next period of prosperity. These improvements are even now coming to fruition in the laboratories, engineering departments and shops of the country's progressive manufacturers. Engineers, constructors and executives owe it to themselves to keep in close touch with current developments. The advertising pages of *Engineering News-Record* provide an effective means of contact—take advantage of the information they offer.

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12
Reasons why
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A PUSH . . . AND THE STRAND "CORKSCREWS" INTO POSITION

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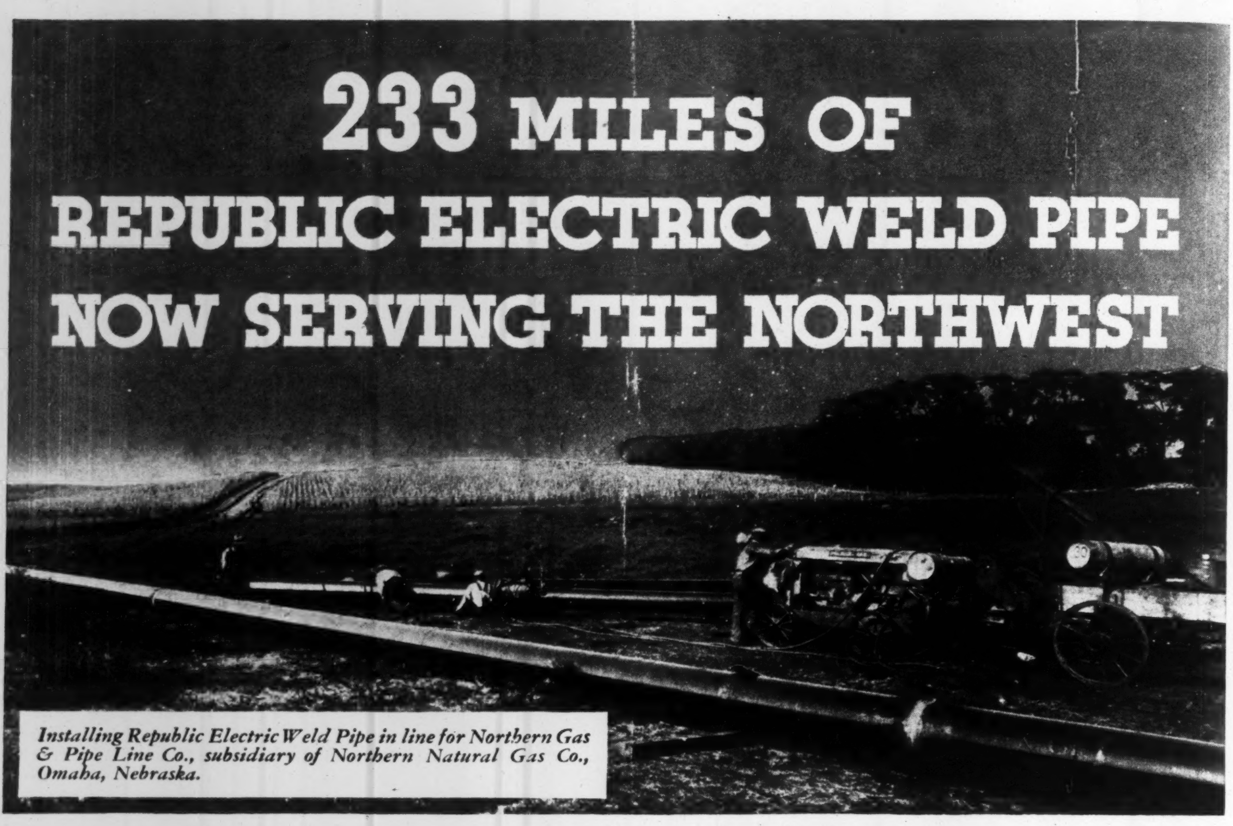

Installing Republic Electric Weld Pipe in line for Northern Gas & Pipe Line Co., subsidiary of Northern Natural Gas Co., Omaha, Nebraska.

LINES totaling more than a million feet of Republic Electric Weld Pipe in sizes 10, 12, 14 and 16-inch now stretch from Mason City, Iowa, to Owatonna and Rochester, Minn., from Ogden to Des Moines, Iowa, and from Sioux City, Iowa to Sioux Falls, S. Dak. These lines tie in to a 26-inch trunk line at Mason City and bring the conveniences and economy of Texas gas from the Amarillo field to dozens of Minnesota, Iowa and South Dakota communities served by the Northern Natural Gas Company.

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Catalog 210-B—sixty-four pages of interesting information including method of manufacture, applications, results of tests and time saving engineering data—sent without charge upon request.

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